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LIST  
OF  
HYMENOPTERA,  
WITH  
DESCRIPTIONS AND FIGURES  
OF THE  
TYPICAL SPECIMENS  
IN THE  
BRITISH MUSEUM.

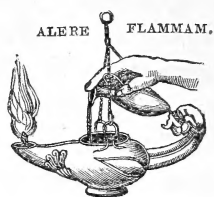
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VOL. I.  
TENTHREDINIDÆ AND SIRICIDÆ.

BY  
W. F. KIRBY.

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## PREFACE.



THE object of this work is threefold :—first, to give a complete list of all the species of Hymenoptera hitherto described, with references to the literature, so as to serve as a guide and aid in improving the collection in the British Museum, which in some respects is very incomplete; secondly, to enumerate the specimens at present contained in that collection; and, thirdly, to illustrate the most important of them, viz. the types of specific descriptions, many of which are now published for the first time.

Mr. W. F. Kirby, one of the Assistants of this Department, has prepared this first volume, and has made considerable progress with the manuscript of the second.

ALBERT GÜNTHER,

*Keeper of the Department of Zoology.*

British Museum,  
July 1, 1882.







## INTRODUCTION.

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IN the present volume upwards of 2000 species of the family *Tenthredinidæ* are enumerated, and of the family *Siricidæ* nearly 100.

These insects have been much neglected by entomologists: in Europe only and, to some extent, in North America have they been assiduously collected, whilst our knowledge of the exotic forms is very imperfect. No attempt therefore has been made to alter materially the classification and arrangement of the genera generally adopted, viz. that proposed by Norton in his Monograph of the North-American *Tenthredinidæ* and *Uroceridæ* (*Siricidæ*), in the 'Transactions of the American Entomological Society,' vols. i. & ii.

Parthenogenesis is very common in the *Tenthredinidæ*, and the females are generally far more abundant than the males: hence in many species one sex only is known. The sexes do not usually differ very much in coloration: those of *Dielocerus ellisii* and *Ptenus serratus* are among the most dissimilar with which I am acquainted.

The species do not appear to vary greatly. On the other hand, the same distribution of colour and pattern not unfrequently reappears in widely separated species, so that two specimens may appear identical at first sight, whereas a closer inspection reveals structural differences in their antennæ and neuration, which prove them to belong to widely separated genera, or perhaps even to distinct subfamilies.

The most extensive genus, and one of the most difficult of the *Tenthredinidæ* is *Nematus*, of which 373 species, mostly European, are here enumerated. Many of these, however, will probably prove to be identical when the synonymy of the genus is cleared up, a large number having been established by Hartig and Förster on slight or insufficient characters. It should also be noticed that in taking up Klug's species of other groups, Hartig has frequently copied the diagnoses only, even when, apart from Klug's descriptions, the diagnoses are wholly insufficient for their determination. This has sometimes led later writers to regard Klug's species of *Allantus* &c. as uncertain, where, in fact, no ambiguity exists.

As the present is the first general Catalogue of *Tenthredinidæ* and *Siricidæ* which has appeared, it is possible that a few species described by old authors may have been overlooked. It is believed, however, that such omissions are not numerous.

Lastly, I have to thank Mr. P. Cameron, of Glasgow, for his kindness in forwarding types of several of his new species of the genus *Tenthredopsis* for examination.

W. F. KIRBY.

British Museum,  
June 1882.

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# CATALOGUE

## OF

# INSECTS.

### HYMENOPTERA TEREBRANTIA.

#### Family I. TENTHREDINIDÆ.

##### Subfamily I. CIMBICINÆ.

##### 1. CIMBEX.

- Crabro*, *Geoffr. Hist. Ins.* ii. p. 261 (1762); *Fourcr. Ent. Par.* ii. p. 361 (1785), *nec Fabr.* (1775).\*
- Clavellaria* (p.), *Oliv. Enc. Méth., Ins.* iv. p. 22 (1789).
- Cimbex*, *Oliv. l. c.* p. 764 (1790).
- Tenthredo* (p.), *Linn. Syst. Nat.* i. p. 555 (1758); *Jur.* (restr.) *Hym.* p. 45 (1807).

##### 1. *Cimbex femorata*.

- ♂. *Tenthredo femorata*, *Linn. Syst. Nat.* i. p. 555, n. 1 (1758); *Faun. Suec.* p. 388 (1761).
- ♂ ♀. *Cimbex femorata*, *Vollenh. Tijdschr. Ent.* (2) v. p. 64, pl. iii. (1870).
- ♀. *Tenthredo lutea*, *De Geer, Mém. Ins.* ii. pt. 2, p. 943 (1771); *Don. Brit. Ins.* vii. pl. ccxxiv. (1798).
- ♀. *Cimbex lutea*, *Panz. Faun. Germ.* Heft 105, pl. xiv. (1809).
- ♂. *Crabro lunulatus*, *Fourcr. Ent. Par.* ii. p. 362 (1785).
- ♀. *Crabro annulatus*, *Fourcr. l. c.* (1785).
- ♂. *Cimbex europæa*, *Leach, Zool. Misc.* iii. p. 104 (1817).

---

\* To restore the name *Crabro* to this genus would disturb the existing nomenclature of the *Hymenoptera* to an inconvenient extent; and I have therefore decided to retain *Cimbex*, though the former name has priority.

- ♀. *Cimbex griffinii*, *Leach, l. c.* p. 107 (1817).  
 ♀. *Cimbex schæfferi*, *St.-Farg. Mon. Tenth.* p. 21 (1823); *Faun. Franç., Hym.* p. 3, pl. i. fig. 1.  
 ♂ ♀. *Cimbex variabilis* (p.), *Klug, Verh. nat. Ges. naturf. Fr. Berl.* i. p. 72 (1829).  
 ♂. *Tenthredo humboldtii*, *Ratz. Forst. Ins.* iii. p. 135 (1844).  
 ♂ ♀. *Cimbex violascens*, *Thoms. Hym. Scand.* i. p. 20 (1871).  
 ♂ ♀. *Cimbex brevispina*, *Thoms. l. c.* p. 21 (1871).

*Hab.* Europe.

|  |             |                    |
|--|-------------|--------------------|
| <i>a-d.</i> ♂ ♀.                             | Britain.    | J. F. Stephens.    |
| <i>e, f.</i> ♂ ♀.                            | Britain.    |                    |
| <i>g.</i> ♂. (Type of <i>C. europæa</i> .)   | Dartford.   | W. E. Leach.       |
| <i>h, i.</i> ♂ ♀.                            | Devonshire. | W. E. Leach.       |
| <i>k.</i> ♀.                                 | Windsor.    |                    |
| <i>l.</i> ♀. (Type of <i>C. griffinii</i> .) | Norwich.    | W. E. Leach.       |
| <i>m.</i> ♀.                                 | Germany.    | Herr J. F. Ruthe.  |
| <i>n, o.</i> ♂.                              | Bohemia.    | Prof. N. M. Kheil. |
| <i>p, q.</i> ♀.                              | Europe.     |                    |

## 2. *Cimbex maculata*.

- ♀. *Crabro maculatus*, *Fourcr. Ent. Par.* ii. p. 362 (1785).  
 ♀. *Cimbex pallida*, *Steph. Ill. Brit. Ent., Mund.* vii. p. 7 (1835).

*Hab.* England, France.

|  |               |                 |
|--|---------------|-----------------|
| <i>a.</i> ♀. (Type of <i>C. pallida</i> .) | Colney Hatch. | J. F. Stephens. |
| <i>b, c.</i> ♂ ♀.                          | Europe.       |                 |

## 3. *Cimbex lutea*.

- ♀. *Tenthredo lutea*, *Linn. Syst. Nat.* i. p. 655, n. 2 (1758); *Faun. Suec.* p. 388 (1761).  
 ♂ ♀. *Cimbex lutea*, *Thoms. Hym. Scand.* i. p. 19 (1871).  
 ♂. *Tenthredo tristis*, *Fabr. Iter. Norw.* p. 334 (1779).  
 ♀. *Tenthredo sylvarum*, *Fabr. Ent. Syst.* ii. p. 105, n. 4 (1793); *Panz. Faun. Germ.* Heft 88, pl. xvi. (1805).  
 ♂ ♀. *Cimbex sylvarum*, *Vollenh. Tijdschr. Ent.* xviii. p. 33, pl. iii. (1875).  
 ♂. *Tenthredo femorata*, *Panz. l. c.* Heft 26, pl. xx. (1796).  
 ♀. *Cimbex varians*, *Leach, Zool. Misc.* iii. p. 105 (1817).  
 ♀. *Cimbex luteola*, *St.-Farg. Mon. Tenth.* p. 28 (1823).  
 ♀. *Cimbex pallens*, *St.-Farg. l. c.* (1823); *Faun. Franç., Hym.* p. 5, pl. i. fig. 3.  
 ♀. *Cimbex biguetina*, *St.-Farg. Ann. Soc. Ent. Fr.* ii. p. 455 (1833).  
 ♂ ♀. *Cimbex saliceti*, *Zadd. Schrift. Königsb.* iii. p. 251, pl. ii. fig. 3 (1863).  
 ♂ ♀. *Cimbex betulæ*, *Zadd. l. c.* pp. 233, 249 (1863).  
 ♂ ♀. *Cimbex fagi*, *Zadd. l. c.* pp. 233, 251 (1863).

*Hab.* Europe; Siberia.

|                  |          |                 |
|------------------|----------|-----------------|
| <i>a-l.</i> ♂ ♀. | Britain. | J. F. Stephens. |
| <i>m-p.</i> ♂ ♀. | Britain. |                 |



|                                     |               |                   |
|-------------------------------------|---------------|-------------------|
| g. ♂.                               | Norwood.      | W. S. Kent, Esq.  |
| r. ♀. (Type of <i>C. varians</i> .) | Coombe Wood.  | W. E. Leach.      |
| s. ♀.                               | Coombe Wood.  | J. F. Stephens.   |
| t. ♀.                               | Coombe Wood.  |                   |
| u, v. ♂.                            | Darenth Wood. |                   |
| w-y. ♀.                             | Perthshire.   | Mr. Foxcroft.     |
| z-ee. ♂ ♀.                          | Germany.      | Herr J. F. Ruthe. |

4. *Cimbex connata*.

*Tenthredo connata*, *Schrank, Beytr. z. Naturg.* p. 83 (1776).

*Tenthredo montana*, *Panz. Faun. Germ.* Heft 84, pl. xii. (1801).

*Cimbex decemmaculata*, *Leach, Zool. Misc.* iii. p. 106 (1817); *Curtis, Brit. Ent.* i. pl. xli. (1823).

*Cimbex ornata*, *St.-Farg. Mon. Tenth.* p. 28, n. 77 (1823); *Faun. Franç., Hym.* p. 4, pl. i. fig. 2.

*Cimbex connata*, *Vollenh. Tijdschr. Ent.* vii. p. 59, pls. i. and ii. (1864).

*Hab.* Europe.

|   |                               |                    |
|---|-------------------------------|--------------------|
| a-e. ♂.   | Britain.                      | J. F. Stephens.    |
| f, g. ♂.  | Britain.                      |                    |
| h. ♂.   | St. Leonard's Forest, Sussex. | R. B. Sharpe, Esq. |
| i. ♀.   | Coombe Wood.                  |                    |
| k. ♀.   | Darenth Wood.                 |                    |
| l. ♀. (Type of <i>C. 10-maculata</i> .)                     | Windsor.                      | W. E. Leach.       |
| m. ♂.   | France.                       |                    |
| n. ♀. (Type of <i>C. 10-maculata</i> , $\beta$ ,<br>Leach.) | France.                       | W. E. Leach.       |
| o. ♀.   | Europe.                       |                    |

5. *Cimbex humeralis*.

*Crabro humeralis*, *Fourcr. Ent. Par.* ii. p. 361 (1785).

*Tenthredo connata*, *De Vill. Linn. Ent.* iii. p. 84, n. 13 (1789).

*Cimbex axillaris*, *Panz. Faun. Germ.* Heft 81, pl. xi. (1801);  
*Vollenh. Tijdschr. Ent.* v. p. 49, pl. i. (1862).

*Cimbex (variabilis) alni*, *Zadd. Schrift. Königsb.* iii. p. 240 (1863).

*Hab.* Central and Southern Europe.

|           |            |              |
|-----------|------------|--------------|
| a. ♀.     | Salisbury. | W. E. Leach. |
| b. ♂.     | Italy.     |              |
| c-f. ♂ ♀. | Europe.    |              |

6. *Cimbex scapularis*.

*Cimbex scapularis*, *Stein, Stett. ent. Zeit.* xxxvii. p. 53 (1876).

*Hab.* S.E. Europe\*.

\* *Cimbex vespiformis*, Oliv. Enc. Méth. v. p. 772 (1790), does not belong to the *Tenthredinidæ*, but according to St.-Fargeau, is *Celonites apiformis*, Latr.

7. *Cimbex ariana*.

(Plate I. fig. 3.)

Exp. al. 1 poll. 2 lin., long. corp. 8 lin.

*Female*. Black; antennæ, jaws, tibiæ, and tarsi yellow. Abdomen yellow, front margin of all the segments, except the two last, black, more broadly in the middle than at the sides; under surface of abdomen yellowish. Wings vitreous; fore wings with the costal half clouded with deep yellow.

Nearest to *C. axillaris*, from which the black head and scapulæ will at once separate it, independently of other differences; but much more slender than any described species of the genus.

*Hab.* North India.

a. ♀. (Type of species.)

North India.

Capt. Laing.

8. *Cimbex sibirica*.

(Plate I. fig. 1.)

Exp. al. 2 poll., long. corp. 10 lin.

*Female*. Allied to *C. violacea*, but with the abdomen rather shorter and broader. Black; head and thorax with short bristly hairs. Antennæ castaneous, with the basal joint reddish brown; jaws reddish; scapulæ black, slightly edged with tawny, or wholly tawny; in the latter case there is a tawny spot on the back of the head on each side, behind the eyes. Thorax sometimes edged behind with tawny; metathorax always with a small yellow depression on each side. Segments 3 to 6 or 7 banded with tawny, which is frequently more or less interrupted in the middle; under surface black. Legs tawny; femora black; tibiæ darker than the tarsi. Middle and sides of abdomen sometimes marked with yellowish; the extremity always black beneath, whereas it is nearly always yellow in *C. violacea*. Wings yellowish hyaline, with yellowish or fuscous nervures; extremities dusky; costa yellow; stigma dusky, with a large oblique dusky shade below it, as in *C. violacea*.

This species more resembles Panzer's figure of *C. sylvarum*, which is a variety of the female of *C. lutea*, than any *Cimbex* at present in the collection of the British Museum.

*Hab.* Siberia.

a. ♀. (Type of species.)

Angara.

Purchased.

b, c. ♀.

Trans-Baikal.

Purchased.

9. *Cimbex japonica*.

(Plate XVI. fig. 1.)

Exp. al. 2 poll. 4 lin., long. corp. 1 poll.

Shining violaceous, black above, duller below; three yellow spots, increasing in size, on the sides of segments 3-5 of the abdomen; segment 7 edged behind with tawny above, and, with the following, wholly tawny beneath; segments 8 and 9 wholly tawny, except a dark mark on the back of segment 8. Antennæ violet-brown at the base, and yellow beyond the third joint. Femora blue-black; tibiæ yellowish brown; tarsi yellowish. Wings purplish hyaline, strongly iridescent below the stigma and on the outer half of the fore wings.

*Hab.* Japan.

a. ♀. (Type of species.)

Tokai.

Montague Fenton, Esq.

### 10. *Cimbex americana*.

(♂ Plate I. fig. 2; ♀ Plate XVI. fig. 2.)

♂. *Cimbex americana*, *Leach*, *Zool. Misc.* iii. p. 104, n. 3 (1817).

♀. *Tenthredo femorata*, *Abbot*, *Drawings of the Insects of Georgia* (*MSS. in B. M.*), xii. pl. lxi. (1792).

Exp. al. 2 poll. 2 lin. ad 2 poll. 3 lin., long. corp. 13-14 lin.

*Male.* Head and thorax black, finely punctuated and clothed with hair; cheeks deep violet. Antennæ black at the base, the basal joint tufted; third joint piceous, shading into luteous; the joints beyond and the tarsi luteous. Femora and tibiæ deep blue, densely clothed with hair, which is very long on the tibiæ. Abdomen deep violet above, with a luteous membrane at the base; under surface black. Wings hyaline, with piceous nervures, clouded at the tips and below the stigma.

*Female.* Head, thorax, and legs black. Antennæ, eyes, tarsi, basal membrane, and two spots on each side of the abdomen yellow. Abdomen violaceous. Wings brown.

The description and figure of the female are taken from Abbot's drawing, which is accompanied by the following note:—"Taken 4th April, near Briar-Creek Swamp, and bred in stumps of trees that have been cut down. I have taken them, when laying their eggs, with their tails thrust into the wood so far that they were sometimes not able to disengage themselves. Rare." I suspect, however, that this observation, which is repeated in the case of a species of *Rhyssa*, was not originally intended to apply to *Cimbex*.

This species has always been mistaken for the following; but the hind femora are shorter and much more swollen. The specimen agrees with Leach's description, and is probably his type; but the dimensions given by him (long. corp. 13½, exp. al. 25½ lin.) somewhat exceed those of our specimen.

*Hab.* Georgia.

a. ♂. (Type of species?)

Georgia.

(Probably from Abbot's collection.)

11. *Cimbex ulmi*.

*Cimbex americana* et *ulmi*, *Harr. Ins. Mass.* p. 374 (1841).

*Cimbex americana*, *Nort. Proc. Ent. Soc. Phil.* i. p. 201 (1862); *Trans. Amer. Ent. Soc.* i. p. 41 (1867).

*Var. Cimbex laportei*, *St.-Farg. Ann. Soc. Ent. Fr.* ii. p. 454 (1833).

*Hab.* North America.

a. ♂.  
b. ♀.

Nova Scotia.

Lieut. Redman.

12. *Cimbex fuscipennis*.

*Cimbex fuscipennis*, *Leach, Zool. Misc.* iii. p. 103, n. 1 (1817).

*Hab.* North America?\*

13. *Cimbex viardi*.

*Cimbex viardi*, *St.-Farg. Ann. Soc. Ent. Fr.* ii. p. 454 (1833).

*Hab.* North America.

14. *Cimbex kirbii*.

*Cimbex kirbii*, *Brullé, Hym.* iv. p. 672, pl. 38. fig. 6 (1846).

*Hab.* North America.

15. *Cimbex dahlbomii*.

*Cimbex dahlbomii*, *Guér. Ic. R. Anim., Ins.* p. 398, pl. lxiv. fig. 1 (1829-1844).

*Hab.* North America†.

16. *Cimbex violacea*.

*Cimbex violacea*, *St.-Farg. Mon. Tenth.* p. 27, no. 76 (1823).

♀. *Cimbex americana*, var. *decemmaculata*, *Nort. Trans. Amer. Ent. Soc.* i. p. 42 (1867).

Exp. al. 1 poll. 5 lin. ad 2 poll. 2 lin., long. corp. 7 lin. ad 1 poll.

*Male.* Upper surface of head, thorax, and legs dark brown; less densely hairy and hind femora less swollen than in *C. americana*. Cheeks more or less rufous. Abdomen wholly rufous, and under surface of legs spotted with rufous; antennæ and tarsi luteous. In the darker specimens the legs are wholly reddish brown beneath, and the abdomen is purplish above at the base. Wings as in *C. americana*.

---

\* This species will probably prove to be a North-American insect, and is perhaps a variety of *C. ulmi*. Many writers regard all the North-American *Cimbices* as varieties of one species.

† Probably a variety of the female of *C. violacea*.

*Female*. Pitchy brown; scutellum rufous; collar, the hinder part of the head, two depressions on the vertex within the eyes, and the jaws and lower edge of the clypeus rufous; antennæ and tarsi luteous. Abdomen with a yellow membrane at base, as in the male; basal segment violet-brown, the colour extending in a wedge backwards over more or less of the following segments; if it only covers the first three or four, it is followed by a series of triangular spots in the middle of the following segments; in one case the purple colour extends over the whole abdomen, leaving only a series of five lateral yellow spots, as in typical *ulmi*. Abdomen beneath brown, the apical third deeper yellow than above. Femora violaceous; tibiæ testaceous, sometimes brownish. Wings as in *C. americana*.

Klug regards this species as identical with his *C. luctifera*, with which I am unacquainted. As we possess a long series, and the male appears to be undescribed, I have thought it better to describe both sexes in full. St.-Fargeau was unacquainted with the locality of his specimen.

Two of the largest males from Hudson's Bay have the club of the antennæ much more constricted in the middle than the others; but I am unwilling to describe them as distinct at present.

*Hab.* North America.

|                  |  |                |
|------------------|--|----------------|
| <i>a.</i> ♂.     | Canada.  |                |
| <i>b-m.</i> ♂ ♀. | St. Martin's Falls, Albany<br>River, Hudson's Bay. | Dr. Barnston.  |
| <i>n.</i> ♀.     | Nova Scotia.                                       | Lieut. Redman. |

### 17. *Cimbex luctifera*.

*Cimbex luctifera*, *Klug, Verhandl. Berl. Ges. nat. Freunde*, i. p. 71 (1829).

*Hab.* Georgia.

### 18. *Cimbex semidea*.

*Cimbex semidea*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 1 (1880).

*Hab.* White Mountains.

### 19. *Cimbex pacifica*.

*Cimbex pacifica*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 51 (1880).

*Hab.* Washington Territory.

### 20. *Cimbex rubida*.

*Cimbex rubida*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 1 (1880).

*Hab.* California, Nevada.

21. *Cimbex hudsonica*.

(Plate I. fig. 4.)

Exp. al. 1 poll. 3 lin., long. corp. 7 lin.

Head and thorax black above and below; prothorax very pale yellow; coxæ bluish black; jaws and femora reddish brown. Antennæ, tibiæ, and tarsi luteous. Abdomen with the first two segments black above, the second edged behind with chestnut; the succeeding segments chestnut in the middle; the last two and the under surface almost entirely chestnut. Segments 3 to 6 with a black spot on the edge of the chestnut colouring, expanded on segments 4 and 5 into two long triangles, which almost meet on the back; the sides of these four segments are straw-coloured. Wings as in *C. violacea*, hyaline, yellowish towards the base, and dusky at the tips; the oblique shade running from the stigma across the median cell of the fore wings unusually well defined.

Not unlike a *Trichiosoma* in size and general appearance, though it has the antennæ of *Cimbex*.

*Hab.* Hudson's Bay.

a. ♀. (Type of species.)

St. Martin's Falls.

Dr. Barnston.

22. *Cimbex macleayi*.*Cimbex macleayi*, *Leach, Zool. Misc.* iii. p. 103, no. 2 (1817).*Hab.* Haiti.23. *Cimbex klugii*.*Cimbex klugii*, *Leach, Zool. Misc.* iii. p. 105, no. 6 (1817).*Hab.* Haiti.24. *Cimbex venusta*.*Cimbex venusta*, *Perty, Del. Anim. Art.* p. 129, pl. xxvi. fig. 2 (1830-34).*Hab.* Minas Geraes\*.

## 2. TRICHIOSOMA.

*Trichiosoma*, *Leach, Zool. Misc.* iii. p. 108 (1817).1. *Trichiosoma lucorum*.*Tenthredo lucorum*, *Linn. Syst. Nat.* i. p. 555, n. 4 (1758); *Faun. Suec.* p. 389 (1761).

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\* It has been suggested that this species is only *C. lutea* with a wrong locality; but if the figure is correct, the wings are smaller and of a different shape.

- Trichiosoma sylvaticum*, *Leach, Zool. Misc.* iii. p. 108 (1817).  
*Trichiosoma latreillii*, *Leach, l. c.* p. 110 (1817).  
*Trichiosoma unidentatum*, *Leach, l. c.* p. 111 (1817).  
*Trichiosoma pusillum et biverrucatum*, *Steph. Ill. Brit. Ent., Haust.* vii. p. 11 (1835).  
*Tenthredo vitellinæ*, *Don. Brit. Ins.* iii. pl. 88. f. 3 (1794).  
*Cimbex lucorum*, *Zadd. Schrift. Königsb.* iii. p. 257 (1862); *Vollenh. Tijdschr. Ent.* xi. p. 197, pl. viii. (1868).

*Hab.* Europe.

|   |               |                   |
|---|---------------|-------------------|
| <i>a-k.</i> ♂ ♀.                                | Britain.      | J. F. Stephens.   |
| <i>l, m.</i> ♂.                                 | Britain.      |                   |
| <i>n.</i> ♀. (Type of <i>T. pusillum</i> .)     | Near London.  | J. F. Stephens.   |
| <i>o.</i> ♀. (Type of <i>T. sylvaticum</i> .)   | Near London.  | W. E. Leach.      |
| <i>p.</i> ♀. (Type of <i>T. unidentatum</i> .)  | Darenth Wood. | W. E. Leach.      |
| <i>q.</i> ♂.                                    | Darenth Wood. |                   |
| <i>r, s.</i> ♂ ♀.                               | Coombe Wood.  |                   |
| <i>t.</i> ♂. (Type of <i>T. biverrucatum</i> .) | Teignmouth.   | J. F. Stephens.   |
| <i>u-y.</i> ♂ ♀.                                | Perthshire.   | Mr. Foxcroft.     |
| <i>z.</i> Pupa-case.                            | Britain.      |                   |
| <i>aa.</i> ♂. (Type of <i>T. latreillii</i> .)  | France?       | W. E. Leach.      |
| <i>bb.</i> ♂.                                   | Italy.        | Signor Passerini. |
| <i>cc.</i> ♀.                                   | Italy.        |                   |
| <i>dd-ff.</i> ♂.                                | Europe.       |                   |

## 2. *Trichiosoma betuleti*.

- Cimbex betuleti*, *Klug, Jahresb. d. Insectenkunde*, p. 225 (1834);  
*Vollenh. Tijdschr. Ent.* ii. p. 64, pl. iii. (1858).  
*Trichiosoma tibiale*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 10 (1835).  
*Cimbex cratægi*, *Zadd. Schrift. Königsb.* iii. p. 263 (1863).

*Hab.* Northern and Central Europe.

|   |          |                   |
|---|----------|-------------------|
| <i>a-d.</i> ♀. (Types of <i>T. tibiale</i> .) | Britain. | J. F. Stephens.   |
| <i>e.</i> ♀.                                  | Britain. |                   |
| <i>f.</i> ♀.                                  | Germany. | Herr J. F. Ruthe. |

## 3. *Trichiosoma scalesii*.

(Plate I. fig. 8.)

- Trichiosoma scalesii*, *Leach, Zool. Misc.* iii. p. 111 (1827).  
*Trichiosoma sorbi*, *Hort. Stett. ent. Zeit.* i. p. 19 (1840).  
*Cimbex sorbi*, *Zadd. Schrift. Königsb.* iii. p. 261, pl. ii. figs. 8-10 (1863).

Exp. al. 1 poll. 1 lin. ad 1 poll. 9 lin., long. corp. 6-10 lin.

Black, sides of thorax and base of abdomen clothed with greyish hairs, but the upper part of the head and thorax much less so than in *T. lucorum*. Abdomen with short depressed pubescence above, and always more or less reddish below, especially in the males, in which the apex above is also reddish. Femora steel-blue; tibiæ and tarsi testaceous. Wings generally more of a smoky yellow than

in *T. lucorum*, with reddish-brown nervures; stigma blackish; hind margin dusky and well defined.

*Hab.* Northern and Central Europe.

|                                 |              |                 |
|---------------------------------|--------------|-----------------|
| <i>a-n.</i> ♂ ♀.                | Britain      | J. F. Stephens. |
| <i>o, p.</i> ♀.                 | Britain.     |                 |
| <i>q, r.</i> ♂.                 | Coombe Wood. |                 |
| <i>s.</i> ♀. (Type of species.) | Coombe Wood. | W. E. Leach.    |
| <i>t-aa.</i> ♂ ♀.               | Perthshire.  | Mr. Foxcroft.   |
| <i>bb.</i> ♀.                   | Europe.      |                 |

#### 4. *Trichiosoma vitellina*.

*Tenthredo vitellina*, *Linn. Faun. Suec.* p. 389 (1761).

*Trichiosoma laterale*, *Leach, Zool. Misc.* iii. p. 109 (1817); *Curt. Brit.*

*Ent.* i. pl. xlix. (1824).

*Cimbex vitellinæ*, *Zadd. Schrift. Königsb.* iii. p. 259 (1862).

*Cimbex lateralis*, *Vollenh. Tijdsch. Ent.* vi. p. 65, pl. iv. (1863).

*Trichiosoma salicis*, *Hart. Stett. ent. Zeit.* i. p. 19 (1840).

*Cimbex villosus*, *Motsch. Bull. Mosc.* xxxix. p. 499 (1859).

*Hab.* Northern and Central Europe, North Asia, Western America.

|   |                     |                     |
|---|---------------------|---------------------|
| <i>a-f.</i> ♂ ♀.                            | Britain.            | J. F. Stephens.     |
| <i>g.</i> ♂. (Type of <i>T. laterale</i> .) | Darenth Wood.       | W. E. Leach.        |
| <i>h.</i> ♀.                                | Devonshire.         | J. F. Stephens.     |
| <i>i, k.</i> ♂ ♀.                           | Versailles.         |                     |
| <i>l-n.</i> ♀.                              | Germany.            | Herr J. F. Ruthe.   |
| <i>o.</i> ♂.                                | Europe?             |                     |
| <i>p.</i> ♂.                                | Vancouver's Island. | Dr. Lyall.          |
| <i>q.</i> ♀.                                | Rocky Mountains.    | Entomological Club. |

#### 5. *Trichiosoma arcticum*.

(Plate I. fig. 7.)

? *Trichiosoma lucorum*, *Kirb. Faun. Bor.-Amer., Ins.* iv. p. 255 (1837).

Exp. al. 1 poll. 3 lin., long. corp. 8 lin.

Allied to *T. lucorum*; differs from *T. triangulum* in the shorter, broader, and more obtuse abdomen. Black, with a slight purplish tinge; head, thorax, base of abdomen, and femora clothed with long grey hairs; abdomen above with a short erect grey pile. Antennæ wanting; mandibles and last segment of the abdomen beneath reddish; femora and extreme base of the tibiæ blue-black; tibiæ and tarsi rufo-testaceous. Wings rather short, smoky yellow; the tip of the fore wings very slightly clouded, nervures yellowish or mahogany-brown.

*Hab.* Arctic America.

|                                 |  |                    |
|---------------------------------|--|--------------------|
| <i>a.</i> ♂. (Type of species.) | Fort Simpson, Mackenzie River, 62° N. lat. | Sir J. Richardson. |
|---------------------------------|--|--------------------|



6. *Trichiosoma triangulum*.

*Trichiosoma triangulum*, *Kirb. Faun. Bor.-Amer., Ins.* p. 254 (1837);  
*Nort. Trans. Amer. Ent. Soc.* i. p. 43 (1867).

*Trichiosoma bicolor*, *Nort. P. Bost. Soc.* viii. p. 150 (1861).

*Trichiosoma triangulum*, var. *aleutiana*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 1 (1880).

*Hab.* North of North America.

|                  |                     |                         |
|------------------|---------------------|-------------------------|
| <i>a-g.</i> ♂ ♀. | St. Martin's Falls. | Dr. Barnston.           |
| <i>h.</i> ♂.     | Nova Scotia.        | Presented by F. Walker. |
| <i>i.</i> ♂.     |                     |                         |

7. *Trichiosoma lanuginosum*.

*Trichiosoma lanuginosa*, *Nort. Trans. Amer. Ent. Soc.* i. p. 44 (1867).

*Hab.* California.

8. *Trichiosoma crassum*.

(Plate I. fig. 5.)

*Exp. al.* 1 poll. 7 lin., long. corp. 9 lin.

Probably allied to *T. lanuginosum*; body shorter and thicker than in *T. lucorum*, &c.; head broad; club of the antennæ abruptly pear-shaped. Black; prothorax, scutellum, and base of abdomen densely clothed with yellowish-grey hairs, which are particularly thick on the sides of the pectus. Head and thorax finely punctured; cheeks hairy behind. Undersurface with scattered hairs. Abdomen nearly bare above, except at base; extremity and edges of the segments rufous beneath. Femora blue-black; tibiæ and tarsi testaceous. Wings rather long and narrow, yellowish hyaline, smoky yellow along the costa; hind margin scarcely more clouded than the rest of the wing.

*Hab.* Newfoundland.

|                                 |               |                      |
|---------------------------------|---------------|----------------------|
| <i>a.</i> ♀. (Type of species.) | Newfoundland. | W. C. St. John, Esq. |
|---------------------------------|---------------|----------------------|

9. *Trichiosoma marginale*.

*Trichiosoma marginale*, *Leach, Zool. Misc.* iii. p. 109, n. 3 (1817).

*Cimbex trichiosoma*, *St.-Farg. Mon. Tenth.* p. 34, n. 93 (1823).

*Hab.* —? \*

---

\* The type appears to be lost; and the description does not agree exactly with any specimen in the Museum collection. Zaddach treats this insect as a variety of *T. vitellina*.

## 3. PRAIA.

Praia, *Wankowitz in André, Spec. Hym.* (advertisements to no. 6, July 1880).

## 1. Praia taczanowskii\*.

Praia taczanowskii, *Wankowitz, l. c.* (1880).

*Hab.* Minsk.

## 4. CLAVELLARIA.

Clavellaria (p.), *Oliv. Enc. Méth., Ins.* iv. p. 22 (1789) ; *Leach (restr.), Zool. Misc.* iii. p. 111 (1817).

## 1. Clavellaria amerinæ.

*Tenthredo amerinæ*, *Linn. Syst. Nat.* i. p. 555, n. 3 (1758) ; *Faun. Suec.* p. 389 (1761).

*Cimbex amerinæ*, *Vollenh. Tijdschr. Ent.* iii. p. 104, pl. viii. (1860).

♀. *Tenthredo quadrifasciata*, *De Geer, Mém. Ins.* iii. p. 598, pl. xxx. fig. 20 (1773).

*Tenthredo rufa et quadrifasciata*, *Retz. Gen. Sp. Ins.* p. 71 (1783).

♀. *Tenthredo marginata*, *Linn. Syst. Nat.* i. p. 920, n. 2 (1767) ; *Panz. Faun. Germ. Heft 17*, pl. xiv. (1799).

*Clavellaria marginata*, *Curt. Brit. Ent.* ii. pl. xciii. (1825).

*Hab.* Europe ; Siberia.

a, b. ♂ ♀.  
c, d. ♂ ♀.  
e-g. ♂ ♀.  
h, i. ♂ ♀.  
k. ♂.  
l, m. ♂ ♀.

Windsor.  
Britain.  
Germany.  
Albania.  
Albania.  
Europe.

J. W. Stephens.  
Herr J. F. Ruthe.  
W. W. Saunders.  
Purchased.

## 5. ZARÆA.

*Zaræa*, *Leach, Zool. Misc.* iii. p. 113 (1817).

\* As the description of this genus and species has been published in a very irregular manner, I reproduce it here.

"Antennes claviformes, de 7 articles, dont deux pour la massue qui est allongée. Ailes antérieures avec 2 cellules radiales et 3 cubitales, dont la première reçoit la première nervure récurrente ; la deuxième nervure récurrente fait le prolongement de la deuxième nervure transverso-cubitale. Cellule lancéolée contractée au milieu. Hanches presque contigues. Ongles simples. Jonction des premier et deuxième segments abdominaux sans fente élargie, nue, membraneuse.

"*P. taczanowskii*, Wank. sp. n. Noire, opaque, très-finement chagrinée. Tête et thorax à pubescence laineuse, blanchâtre ; celui-ci à ponctuation fine, peu dense ; bord des segments abdominaux à bandes régulières blanc-jaunâtre, excepté au deuxième où elles sont réduites à une tache latérale ; ailes jaunâtres. Pattes jaune ferrugineux avec les hanches, les cuisses antérieures, sauf les genoux, et deux bandes longitudinales aux cuisses intermédiaires noires. Dernier segment ventral ♀ largement et anguleusement échancré, avec une profonde fossette triangulaire au milieu. Long. 16 mm. ; env. 35 mm.

"Une seule ♀ prise aux environs de Minsk en Lithuanie. Dédiée à M. le directeur du musée de Varsovie, M. Ladislas Taczanowski. Ce genre est voisin des *Trichiosoma* et des *Clavellaria*."

1. *Zaræa fasciata*.

*Tenthredo fasciata*, *Linn. Syst. Nat.* i. p. 555, n. 5 (1758); *Faun. Suec.* p. 389 (1761); *Panz. Faun. Germ.* Heft 17, pl. xv. (1799).  
*Zaræa fasciata*, *Curt. Brit. Ent.* ii. pl. xevii. (1825).

*Hab.* Northern and Central Europe.

|                  |          |                   |
|------------------|----------|-------------------|
| <i>a-d.</i> ♀.   | Britain. | J. F. Stephens.   |
| <i>e-g.</i> ♂ ♀. | Britain. |                   |
| <i>h, i.</i> ♀.  | Germany. | Herr J. F. Ruthe. |
| <i>k.</i> ♀.     | Europe.  |                   |

2. *Zaræa inflata*.

*Zarea inflata*, *Nort. P. Bost. Soc.* viii. p. 151 (1861); *Trans. Amer. Ent. Soc.* i. p. 45 (1867).

*Abia caprifolium*, *Nort. Trans. Amer. Ent. Soc.* i. p. 46 (1867).

*Hab.* Hudson's Bay, Connecticut, Massachusetts, Illinois.

|                |                      |               |
|----------------|----------------------|---------------|
| <i>a-d.</i> ♀. | St. Martin's Falls*. | Dr. Barnston. |
|----------------|----------------------|---------------|

3. *Zaræa americana*.

*Zarea americana*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 1 (1880).

*Hab.* California.

## 6. ABIA.

*Abia*, *Leach, Zool. Misc.* iii. p. 113 (1817).

1. *Abia nitens*.

*Tenthredo nitens*, *Linn. Syst. Nat.* i. p. 556, n. 7 (1758); *Faun. Suec.* p. 389 (1761).

*Abia nitens*, *Thoms. Hym. Scand.* i. p. 27 (1871).

*Tenthredo sericea*, *Linn. Syst. Nat.* i. p. 921, n. 8 (1767); *Panz. Faun. Germ.* Heft 17, pl. xvi. (1799).

*Cimbex sericea*, *Klug, Verh. Berl. Ges. naturf. Freunde*, i. p. 92, n. 8 (1829).

*Abia sericea*, *Zadd. Schrift. Königsb.* iii. p. 273 (1863).

*Abia dorsalis*, *Costa, Faun. Nap., Cimb.* p. 5, pl. lxi. fig. 1 (1859).

*Hab.* Europe.

|                  |                        |                   |
|------------------|------------------------|-------------------|
| <i>a-f.</i> ♂ ♀. | Britain.               | J. F. Stephens.   |
| <i>g-k.</i> ♂ ♀. | Britain.               |                   |
| <i>l.</i> ♀.     | Loch Rannoch.          | Mr. Foxcroft      |
| <i>m.</i> ♀.     | Perthshire (Rannoch?). | Mr. Foxcroft.     |
| <i>n.</i> ♀.     | France.                |                   |
| <i>o, p.</i> ♀.  | Germany.               | Herr J. F. Ruthe. |
| <i>q.</i> ♀.     | Italy.                 |                   |
| <i>r-t.</i> ♂ ♀. | Europe.                |                   |

\* The specimens in the British Museum stood under the name of "*Abia tenuicornis*, Say;" but I can find no mention of such a species in Say's works, nor does Norton refer to it.

2. *Abia brevicornis*.

(Plate XVI. fig. 2.)

*Abia brevicornis*, *Leach*, *Zool. Misc.* iii. p. 114 (1817).*Cimbex splendida*, *Klug*, *Verh. Berl. Ges. naturf. Fr.* i. p. 93, n. 9 (1829).

Exp. al. 11 lin., long. corp. 6 lin.

Head and thorax bronzy green. Abdomen green, with the incisions bluish; body beneath with purple and violet reflections. Antennæ rather short, ferruginous; labrum and mandibles ferruginous; legs whitish yellow, femora and tarsi stained with ferruginous. Wings clear hyaline, with yellow nervures; a narrow shade below the stigma, and a very slight cloud on the costa before the tip. Male with a velvety-brown patch on the back of segments 4-7.

*Hab.* Central Europe.

a. ♀. (Type of species.)

b, c. ♂ ♀.

Germany.

W. E. Leach.

Herr J. F. Ruthe.

3. *Abia mutica*.*Abia mutica*, *Thoms. Hym. Scand.* i. p. 28 (1871).*Hab.* Sweden.4. *Abia aurulenta*.*Abia aurulenta*, *Sichel*, *Bull. Soc. Ent. Fr.* (3), iv. p. lxxvii. (1856).*Cimbex cuprea*, *Aich. Zeitsch. Ferdinand.* (3), xv. p. 308 (1870).*Hab.* Piedmont.5. *Abia fulgens*.*Abia fulgens*, *André*, *Spec. Hym.* i. p. 30 (1879).*Abia aurulenta*, *Zadd. Schrift. Königsb.* iii. p. 272 (1863).*Hab.* Piedmont, Switzerland, &c.6. *Abia loniceræ*.*Tenthredo loniceræ*, *Linn. Syst. Nat.* i. p. 559, n. 39 (1758); (*Réaumur*, *Hist. Ins.* v. pl. xiii. figs. 8-10).*Abia nigricornis*, *Leach*, *Zool. Misc.* iii. p. 113, n. 1 (1817); *Curt. Brit. Ent.* ii. pl. lxxxix. (1825); *Zadd. Schrift. Königsb.* iii. p. 270 (1863).*Cimbex ænea*, *Klug*, *Verhandl. Berl. Ges. naturf. Fr.* i. p. 91, n. 7 (1829).*Abia (Cimbex) ænea*, *Vollenh. Tijdschr. Ent.* i. p. 144, pl. v. (1858).*Abia bifida*, *Thoms. Hym. Scand.* i. p. 28 (1871).

*Tenthredo nitens*, *De Geer, Hist. Ins.* ii. pt. ii. p. 1016, pl. xxxviii. figs. 32–34 (1771).

*Tenthredo flavipes*, *Retz. Gen. Sp. Ins.* p. 71, n. 297 (1783).

*Hab.* Europe.

|  |          |                   |
|--|----------|-------------------|
| <i>a-g.</i> ♂ ♀.                               | Britain. | J. F. Stephens.   |
| <i>h, i.</i> ♂ ♀.                              | Britain. |                   |
| <i>k.</i> ♀.                                   | Blois.   | Lady Seymour.     |
| <i>l, m.</i> ♀.                                | Germany. | Herr J. F. Ruthe. |
| <i>n.</i> ♂. (Type of <i>A. nigricornis</i> .) |          | W. E. Leach.      |
| <i>o-q.</i> ♂.                                 | Europe*. |                   |

### 7. *Abia imperialis*.

(Plate I. fig. 10.)

Exp. al. 10 lin., long. corp. 5 lin.

Violet-blue. Antennæ black; tarsi piceous. Fore wings clear yellowish hyaline, with no dark markings; nervures yellow; hind wings clear hyaline. Abdomen with a velvety black patch on the back of segments 5–8.

*Hab.* North China.

|                                 |              |             |
|---------------------------------|--------------|-------------|
| <i>a.</i> ♂. (Type of species.) | North China. | R. Fortune. |
|---------------------------------|--------------|-------------|

### 8. *Abia kennicotti*.

*Abia kennicotti*, *Norton, Trans. Amer. Ent. Soc.* i. p. 46 (1867).

*Hab.* United States.

### 9. *Abia* (?) *cerasi*.

*Abia cerasi*, *Fitch, Third Report N.Y. State Agric. Soc.* p. 67 (1859);  
*Nort. Trans. Amer. Ent. Soc.* i. p. 47 (1867).

*Hab.* New York.

## 7. AMASIS.

*Amasis*, *Leach, Zool. Misc.* i. p. 114 (1817).

### 1. *Amasis obscura*.

*Tenthredo obscura*, *Fabr. Syst. Ent.* p. 319, n. 9 (1775); *Panz. Faun. Germ.* Heft 84, pl. xiii. (1801); ? *Gmel. Syst. Nat.* i. pt. 5, p. 2666, n. 120 (1788?).

*Cimbex obscura et italica*, *St.-Farg. Mon. Tenth.* p. 39 (1823).

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\* Vollenhoven represents the larva of this species as feeding on snowberry; but Olivier states that it feeds on honeysuckle; and Réaumur's figure of the perfect insect agrees much better with this species than with *Zaræa fasciata*, to which *T. loniceræ*, Linn., is generally referred.

*Amasis obscura*, *Thoms. Hym. Scand.* i. p. 31 (1871).

? *Tenthredo relictæ*, *St.-Farg. Mon. Tenth.* p. 133, n. 408 (1823).

*Hab.* Europe.

|          |          |                   |
|----------|----------|-------------------|
| a. ♀.    | Britain. |                   |
| b. ♂.    | Italy.   | Mr. Birch.        |
| c. ♀.    | Italy.   | Signor Passerini. |
| d, e. ♀. | Italy.   |                   |
| f. ♀.    | Europe.  |                   |

## 2. *Amasis crassicornis*.

*Tenthredo crassicornis*, *Rossi, Faun. Etr.* ii. p. 21, n. 704 (1790).

*Cimbex sylvatica*, *Oliv. Enc. Méth.* v. p. 772, n. 14 (1790).

*Tenthredo læta*, *Fabr. Ent. Syst. Suppl.* p. 214 (1798); *Panz. Faun. Germ.* Heft 62, pl. vi. (1799).

*Cimbex læta*, *St.-Farg. Mon. Tenth.* p. 39 (1823); *Faun. Franç.* pl. i. fig. 6.

*Cimbex jurinæ et olivieri*, *St.-Farg. Mon. Tenth.* pp. 38 & 40 (1823).

*Hab.* Europe.

|           |                          |                   |
|-----------|--------------------------|-------------------|
| a, b. ♀.  | Britain.                 |                   |
| c. ♀.     | St. Béat, Haute-Garonne. | Rev. A. E. Eaton. |
| d-f. ♂ ♀. | Europe.                  |                   |

## 3. *Amasis amœna*.

*Cimbex amœna*, *Klug, Jahresb. d. Insectenkunde*, i. p. 227 (1834).

*Amasis amœna*, *Zadd. Schrift. Königsb.* iii. p. 276 (1863).

*Abia mutabilis*, *Tischb. Stett. ent. Zeit.* xiii. p. 106 (1852).

*Amasis concinna*, *Stein, Stett. ent. Zeit.* xxxvii. p. 54 (1876).

*Hab.* Central and Eastern Europe.

## 4. *Amasis lateralis*.

*Amasis lateralis*, *Brullé, Exped. Scient. de Morée*, iii. 1, pt. ii. p. 880 (1832); *Zadd. Schrift. Königsb.* iii. p. 276 (1863).

*Cimbex jucunda*, *Klug, Jahresb. d. Insectenkunde*, i. p. 226 (1834).

*Hab.* Andalusia, Morea.

## 5. *Amasis krueperi*.

*Amasis krueperi*, *Stein, Stett. ent. Zeit.* xxxvii. p. 54 (1876).

*Hab.* Greece; W. Asia.

## 6. *Amasis sanguinea*.

*Amasis sanguinea*, *Vollenh. Tijdschr. Ent.* xxi. p. 154, pl. ix. figs. 1, 1a (1878).

*Hab.* North Africa; Canaries.

|       |                 |                       |
|-------|-----------------|-----------------------|
| a. ♀. | Canary Islands. | T. V. Wollaston, Esq. |
|-------|-----------------|-----------------------|

7. *Amasis subflavata*.

(Plate I. fig. 9.)

Exp. al. 8 lin., long. corp. 5 lin.

Steel-blue; scapulæ and two first abdominal incisions above, sides and undersurface of the abdomen, except at the tip, orange-yellow; coxæ whitish yellow; pectus, tip of abdomen, and legs black or steel-blue. Wings smoky hyaline, with black costa, stigma, and nervures.

The facies of this species is that of *Hylotoma*, and the club of the antennæ is more abrupt and less elongated than in the types of *Amasis*. The hind femora, too, are rather more swollen; but I am not prepared to found a new genus on a single specimen differing by such slight characters. It is probably allied to *A. dilatata*.

*Hab.* Argentine Republic.

a. ♂. Cordova.

8. *Amasis dilatata*.*Amasis dilatata*, *St.-Farg. Enc. Méth.* x. p. 574 (1825).*Hab.* Brazil.

## 8. PLAGIOCERA.

*Plagiocera*, *Klug, Jahrb. d. Insectenkunde*, i. p. 227 (1834).1. *Plagiocera apicalis*.*Plagiocera apicalis*, *Westwood, P. Z. S.* 1835, p. 51.*Plagiocera leachii*, *Spin. Ann. Soc. Ent. Fr.* ix. p. 134 (1840).*Hab.* Brazil.

a. ♀. Brazil. Entomological Club.

2. *Plagiocera thoracica*.*Plagiocera thoracica*, *Klug, Jahrb. d. Insectenkunde*, p. 228, pl. ii. fig. 5, *g* & *h* (1834).*Hab.* Brazil.a. ♀. Brazil. W. Swainson.  
b. ♀.3. *Plagiocera klugii*.*Plagiocera klugii*, *Brullé, Hym.* iv. p. 672, pl. 48. fig. 3 (1846).*Hab.* South America.

9. **PACHYLOSTICTA.**

*Pachylosticta*, *Klug, Ent. Monogr.* p. 171 (1824).

1. ***Pachylosticta tibialis.***

*Pachylosticta tibialis*, *Klug, Ent. Monogr.* p. 173 (1824).

*Hab.* Brazil.

*a. ♂.* Brazil. Entomological Club.

2. ***Pachylosticta violacea.***

*Pachylosticta violacea*, *Klug, Ent. Monogr.* p. 174 (1824).

*Hab.* Brazil.

*a. ♂.* Brazil.

3. ***Pachylosticta chalybea.***

*Pachylosticta chalybea*, *Perty, Del. Anim. Art.* p. 129, pl. xxvi. fig. 2 (1830-34).

*Hab.* Piauhi, Brazil.

4. ***Pachylosticta albiventris.***

*Pachylosticta albiventris*, *Klug, Ent. Monogr.* p. 174 (1824).

*Hab.* Brazil.

*a. ♂.* Brazil. Mrs. Noel.  
*b. ♂.* Brazil. W. Swainson.  
*c, d. ♂.*

10. **PERGA.**

*Perga*, *Leach, Zool. Misc.* iii. p. 115 (1817); *Westw. P. Z. S.* 1880, p. 359.

The transformations of this genus fully entitle it to be regarded as a distinct subfamily; but for the present it is more convenient to leave all the *Tenthredinidæ* with clubbed antennæ in the same division. It agrees with several of the following genera, as well as with *Hylotoma*, in the presence of middle spurs on the tibiæ.

## Section i.

*Antennæ short, 6-jointed; joints 3-5 of equal length, not remarkably short.*

1. ***Perga dorsalis.***

(Plate I. figs. 11, 12, 12 a, 12 b.)

*Perga dorsalis*, *Leach, Zool. Misc.* iii. p. 117, n. 4, pl. cxlviii. fig. 1 (1817); *Westw. P. Z. S.* 1880, p. 362.

♀. *Perga scutellata*, *Gray, Griff. An. Kingd.* xv. p. 402, pl. lxvi. fig. 2 (1832).



Exp. al. 1 poll. 7 lin. ad 1 poll. 11 lin., long. corp. 11–12 lin.

*Male*. Greyish blue above; abdomen bluer and more shining; clypeus, labrum, antennæ, a small spot on each side of the back of the head, behind the eyes, scapulæ, and almost the whole prothorax except just behind the head, a large triangular spot on each side of the pectus, a smaller one above the posterior coxæ, scutellum, and legs rufo-testaceous, the former with very shallow punctures; middle of pectus and undersurface of abdomen shining violet-blue. Abdomen above with segments 2–5 at least covered with a silky pubescence in the middle; back of head and thorax moderately punctured, sides of pectus very coarsely so; scutellum smooth. Wings deep yellowish hyaline, with reddish costa, stigma, and nervures; costa of fore wings very strongly arched.

The *female* has the costa less strongly arched; the abdomen is longer, silky green above, and the segments are but slightly edged behind with silky pubescence. The legs, scutellum, &c. are generally paler than in the male, and the scutellum is more deeply pitted. The spot on the sides of the pectus is smaller, sometimes almost obliterated. In one specimen the hind femora are blackish at the extremities above, and ferruginous in the middle. The saws are reddish.

The details representing the head of the female are copied from Gen. Hardwicke's unpublished drawings.

*Hab.* Australia (Moreton Bay, &c.).

|                          |            |                        |
|--------------------------|------------|------------------------|
| a. ♂. (Type of species.) | Australia. | W. E. Leach.           |
| b. ♀.                    | Australia. | H. G. Harrington, Esq. |
| c, d. ♂ ♀.               |            |                        |

## 2. *Perga affinis*.

(Plate I. figs. 13 & 14.)

Exp. al. 1 poll. 5 lin. ad 1 poll. 11 lin., long. corp. 9–10 lin.

Head and thorax dull bluish or greenish above; clypeus, labrum, scapulæ, collar, scutellum, and the whole of the sides of the pectus (except a long irregular bluish mark which runs from beneath the base of the fore wings towards the base of the intermediate pair of legs) pale yellow. Antennæ ferruginous, pale yellow at the base. Cheeks more or less yellowish; thorax with a short yellowish stripe on each side in front. Legs ferruginous. Back of metathorax and of the first segment of the abdomen pale yellow; the second segment is narrowly edged with red in front, and this and the four following segments are covered with silky pubescence; the seventh and eighth segments are marked with three red bands, the first most distinct, but interrupted in the middle. On the underside, the middle of the pectus and abdomen are shining black, the abdomen, however, being mottled with rufo-testaceous, and the anal plate is of the same colour. Wings yellowish hyaline.

*Female* similar to the male, but the antennæ and legs are yellowish

testaceous, like the other pale markings. The cheeks are concolorous, but there is a pale spot at the back of the head behind each eye; the pale spots on the thorax are less distinct; and the abdomen is silky green above, with no silky pubescence or red marks, though the first segment is yellowish behind. Undersurface of the abdomen pale, the segments edged with dusky in front. The Australian specimens may be distinct. In the male the grey pubescence of the abdomen is more distinct than in the Tasmanian insect, and the red markings towards the apex much less so. The yellow stripe at the base is entire as in *P. dorsalis*, and not interrupted as in Tasmanian examples. I have not seen a female from Tasmania.

*Hab.* South Australia, Tasmania.

|                   |                       |           |                   |
|-------------------|-----------------------|-----------|-------------------|
| <i>a, b.</i> ♂.   | } (Types of species.) | Tasmania. | A. Simson, Esq.   |
| <i>c, d.</i> ♂ ♀. |                       | Victoria. | R. Bakewell, Esq. |

### 3. *Perga eucalypti*.

*Perga eucalypti*, *Bennett & Scott, Proc. Zool. Soc.* 1859, p. 209, pl. lxii.

*Hab.* New South Wales\*.

### 4. *Perga schiödttii*.

*Perga schiödtei*, *Westw. P. Z. S.* 1880, p. 364, pl. xxxiv. figs. 3, 4.

*Hab.* Australia.

|              |              |                 |
|--------------|--------------|-----------------|
| <i>a.</i> ♀. | Moreton Bay. | Mr. Diggles.    |
| <i>b.</i> ♀. | Adelaide.    |                 |
| <i>c.</i> ♀. | Adelaide.    | Mr. Wilson.     |
| <i>d.</i> ♀. | Swan River.  | Dr. Richardson. |

### 5. *Perga castanea*.

(Plate I. fig. 6.)

Exp. al. 1 poll. 9 lin., long. corp. 11 lin.

Dark reddish brown, almost mahogany-colour, with obscure darker markings on the back of the abdominal segments, having a tendency to form incomplete bands. Antennæ and legs straw-colour; scapulæ and mouth yellowish. Thorax thickly and closely punctured, ridged, with a deep median depression in front; sides of the mesothorax forming a raised ridge grooved in the middle. Underside paler red (chestnut), with a row of pale straw-coloured spots along each side of the abdomen. Wings vitreous, with chestnut nervures: fore wings with the costa strongly arched beyond the middle; costal cell and rather large stigma chestnut-coloured;

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\* Prof. Westwood regards this species as synonymous with *P. dorsalis*; but it appears to me to represent a different species from any at present contained in the British Museum, but nearer to the following.

the whole apical half of the wing clouded with smoky yellow, darkest at the line of demarcation, which forms an ill-defined band: hind wings paler than the fore wings; apical half clouded with brown. The first transverse nervule on the fore wings is marked with a bulla, or is wholly obsolete; and one or two other nervures are also marked with bullæ, which do not appear to be uniform. A second specimen is rather smaller and lighter coloured.

This species may be distinguished from *P. polita* by the different colouring of the wings and by the concolorous scutellum.

*Hab.* New South Wales.

a. ♀. (Type of species.)

Sydney.

\* Mr. Lambert.

b. ♀.

Sydney.

### 6. *Perga kirbii*.

(Plate II. fig. 2.)

*Perga kirbii*, *Leach, Zool. Misc.* iii. p. 117, n. 8 (1816); *Westw. P. Z. S.* 1880, p. 371, pl. xxxvii. fig. 4.

Exp. al. 1 poll. 7 lin., long. corp. 11 lin.

Head and thorax dull castaneous; thorax with the frontal and lateral ridges slightly raised, but distinct and grooved, darker than the ground-colour; tip of jaws black. Abdomen reddish chestnut above, shining. Scutellum obscure testaceous, with a distinct longitudinal groove in the centre. The whole undersurface of the body testaceous. Wings hyaline; costa, stigma, and nervures yellowish.

Closely allied to *P. klugii*, but, independently of its different colouring, the grooved scutellum and clear hyaline wings will at once distinguish it, the scutellum in *P. klugii* having merely a shallow depression in the middle.

As the male only was previously known, I have described and figured the female. Leach's type is in the Hope Museum at Oxford.

*Hab.* Australia.

a. ♀.

Swan River.

Mr. Du Boulay.

### 7. *Perga polita*.

(Plate II. fig. 1.)

*Perga polita*, *Leach, Zool. Misc.* iii. p. 115, n. 1, pl. 148. fig. 3 (1817); *Westw. P. Z. S.* 1880, p. 363.

Exp. al. 1 poll. 3 lin. ad 1 poll. 8 lin., long. corp. 8–10 lin.

Head testaceous above; vertex reddish in the middle; antennæ, labrum, and clypeus yellow; jaws reddish, tipped with black. Thorax reddish brown; scapulæ, collar, a V-spot in the middle and on each side above, and the pleura and the sides of the pectus yellow. Scutellum smooth, yellow, bisected by a groove throughout its whole length. Abdomen shining chestnut, mottled with blackish

above; sometimes violet-brown in the female. Undersurface of abdomen and pectus in the middle shining chestnut; stigmata spotted with white or pale yellow; legs yellow; femora of the colour of the abdomen. Wings yellowish hyaline, generally less deeply coloured than in *P. dorsalis*; nervures chestnut; costa but little arched. Thorax finely punctuated above; sides of pectus much more coarsely punctuated.

*Hab.* Australia.

|                                 |                 |                   |
|---------------------------------|-----------------|-------------------|
| <i>a, b.</i> ♂ ♀.               | Victoria.       | R. Bakewell, Esq. |
| <i>c.</i> ♀.                    | Moreton Bay.    | Mr. Diggles.      |
| <i>d.</i> ♀.                    | Goulburn River. | Capt. Parry.      |
| <i>e.</i> ♀. (Type of species.) | Australia.      | W. E. Leach.      |
| <i>f.</i> ♂.                    | Australia.      |                   |

### 8. *Perga klugii*.

*Perga klugii*, *Westw. P. Z. S.* 1880, p. 363, pl. xxxiv. figs. 1, 2.

*Hab.* Australia.

|                 |                      |                 |
|-----------------|----------------------|-----------------|
| <i>a.</i> ♂.    | Perth, W. Australia. | Purchased.      |
| <i>b.</i> ♂.    | Swan River.          | Dr. Richardson. |
| <i>c, d.</i> ♂. | Swan River.          | Mr. Du Boulay.  |
| <i>e.</i> ♀.    | Swan River.          | Purchased.      |
| <i>f.</i> ♂.    | Champion Bay.        | Mr. Du Boulay.  |
| <i>g.</i> ♀.    |                      |                 |

### 9. *Perga bella*.

*Perga bella*, *Newm. Ent.* i. p. 89 (1841); *Westw. P. Z. S.* 1880, p. 373.

*Hab.* South Australia, Tasmania.

|                 |            |                 |
|-----------------|------------|-----------------|
| <i>a-c.</i> ♀.  | Adelaide.  | Purchased.      |
| <i>d, e.</i> ♀. | Tasmania*. | A. Simson, Esq. |

### 10. *Perga gravenhorstii*.

*Perga gravenhorstii*, *Westw. P. Z. S.* 1880, p. 366, pl. xxxv. fig. 7.

*Hab.* Australia.

|                |            |            |
|----------------|------------|------------|
| <i>a.</i> ♀.   | Australia. |            |
| <i>b-d.</i> ♀. | Australia. | Purchased. |

### 11. *Perga hartigii*.

*Perga hartigii*, *Westw. P. Z. S.* 1880, p. 369.

*Hab.* Australia.

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\* A variable species; the Tasmanian specimens are much blacker than the typical form, which was ticketed *basalis*, *Westw.*, in the British-Museum collection, but was never described under that name.

a. ♀.  
b. ♀.

Melbourne.  
Goulburn River.

Mr. Edwards.  
Capt. Parry.

## 12. *Perga glabra*.

(Plate II. fig. 5.)

Exp. al. 1 poll., long. corp. 6 lin.

Antennæ 6-jointed, the first rather large and globular, the second minute; the third, fourth, and fifth moderate, very slightly decreasing in length; the last very large, forming a pear-shaped club. Head rufous-brown, finely punctured, with a darker shallow depression on each side; face reddish, clypeus and mandibles black. Thorax reddish brown in the middle; lateral elevations and scutellum black, large, prominent, and carinated. Prothorax, sides of thorax, and pectus rufous; legs blackish, base of femora rufous. Abdomen shining luteous. Fore wings violaceous; hind wings hyaline: a transparent isosceles triangle at the base of the fore wings; a transparent line above the anal nervure, with a bulla at its extremity, and a transparent space below the anal nervure; a bulla in the first discoidal cell and on most of the transverse nervures.

*Hab.* New South Wales.

a. ♀. (Type of species.) Sydney.

## 13. *Perga bisecta*.

(Plate II. fig. 4.)

Exp. al. 1 poll. 3 lin., long. corp. 8 lin.

Head uniform tawny; antennæ very short, tips of jaws black. Thorax tawny above, with a longitudinal groove in front and on each side; the former filled up with black, and ending behind in a black spot. Scutellum tawny, bordered with black, and divided in the middle by a broad black line; just below it is a tawny spot on each side. Abdomen tawny, black at the base. Pectus entirely black; legs tawny, the greater portion of the four hind femora black. Abdomen beneath tawny. Wings yellowish hyaline, with tawny costa, stigma, and nervures; base of fore wings darker than the rest of the wing; third submarginal nervule almost rectangular.

*Hab.* N.W. Australia.

a. ♀. (Type of species.) N.W. coast of Australia. Mr. Du Boulay.

## 14. *Perga peletierii*.

*Perga peletierii*, *Westw. P. Z. S.* 1880, p. 370, pl. xxxv. fig. 6.

*Hab.* Australia.

## 15. *Perga newmanni*.

*Perga newmanni*, *Westw. P. Z. S.* 1880, p. 370.

*Hab.* Australia.



22. *Perga christii*.

*Perga christii*, *Westw. P. Z. S.* 1880, p. 366, pl. xxxvii. fig. 2.

*Hab.* Swan River.

23. *Perga guerinii*.

*Perga guerinii*, *Westw. P. Z. S.* 1880, p. 367, pl. xxxv. fig. 1.

*Hab.* Australia.

24. *Perga cameronii*.

*Perga cameronii*, *Westw. P. Z. S.* 1880, p. 367, pl. xxxvii. fig. 3.

*Hab.* Australia.

25. *Perga dalmanii*.

*Perga dalmanii*, *Westw. P. Z. S.* 1880, p. 369, pl. xxxvi. fig. 2.

*Hab.* Australia.

*a.* ♀.

Goulburn River.

Capt. Parry.

26. *Perga univittata*.

(Plate II. fig. 7.)

Exp. al. 1 poll. 2 lin., long. corp. 7 lin.

Head testaceous, antennæ reddish, tips of jaws black. Thorax reddish, scapulæ bordered behind with testaceous; scutellum testaceous, narrowed behind, and ending in two points; frontal depression of the thorax black. Abdomen tawny brown, with a slight golden shade. Undersurface uniform testaceous; pectus brown, divided on each side by a yellowish line; femora and tibiæ reddish at the ends; two small spines at the end of the tibiæ. Fore wings yellowish hyaline, with yellow costa, stigma, and nervures; hind wings hyaline.

*Hab.* Australia.

*a.* ♀. (Type of species.)

Australia.

27. *Perga latreillii*.

(Plate II. fig. 8.)

*Perga latreillii*, *Leach, Zool. Misc.* iii. p. 116, n. 3, pl. 148. fig. 2 (1817); *Westw. P. Z. S.* 1880, p. 372, pl. xxxvi. fig. 3.

Exp. al. 9 lin., long. corp. 5 lin.

Head and thorax blackish above; antennæ ferruginous, the two basal joints black; face, cheeks, two spots on the vertex, edges of

collar, and pleura dull whitish testaceous, the latter shading into the pale uniform rufo-testaceous of the undersurface. Scutellum pale testaceous, very large, with a carina in the middle, not extending to the edges. Abdomen above and legs rufo-testaceous; first two segments of the abdomen black at the base, the black on the second spreading into a black spot on each side. The four hind tarsi are blackish, except the last joint. Wings hyaline, perhaps yellowish when fresh; nervures piceous.

*Hab.* South Australia.

*a.* ♂. (Type of species.)      Australia.      W. E. Leach.

### 28. *Perga macleaii*.

*Perga macleaii*, *Westw. P. Z. S.* 1880, p. 372, pl. xxxv. fig. 2.

*Hab.* Australia.

### 29. *Perga spinolæ*.

*Perga spinolæ*, *Westw. P. Z. S.* 1880, p. 371, pl. xxxvi. fig. 4.

*Hab.* Australia.

|              |            |              |
|--------------|------------|--------------|
| <i>a.</i> ♀. | Melbourne. | Mr. Edwards. |
| <i>b.</i> ♀. | Australia. | Purchased.   |

### 30. *Perga bicolor*.

*Perga bicolor*, *Leach, Zool. Misc.* iii. p. 116, pl. 148. fig. 5 (1817);  
*Westw. P. Z. S.* 1880, p. 371.

*Hab.* South Australia.

|              |            |            |
|--------------|------------|------------|
| <i>a.</i> ♀. | Australia. | Purchased. |
|--------------|------------|------------|

### 31. *Perga foersteri*.

*Perga foersteri*, *Westw. P. Z. S.* 1880, p. 368, pl. xxxvi. fig. 1.

*Hab.* South Australia.

|           |               |            |
|-----------|---------------|------------|
| <i>a.</i> | S. Australia. | Purchased. |
|-----------|---------------|------------|

### 32. *Perga cressonii*.

*Perga cressonii*, *Westw. P. Z. S.* 1880, p. 368, pl. xxxvii. fig. 1.

*Hab.* Swan River.

### 33. *Perga walkerii*.

*Perga walkerii*, *Westw. P. Z. S.* 1880, p. 368, pl. xxxvi. fig. 5.

*Hab.* Sydney.



## Section ii.

*Antennæ 6-jointed ; joints 3-5 so short that the club appears to spring almost immediately from the antennal tubercle. Abdomen rarely pointed, generally obtusely truncated at the extremity ; hind femora more or less swollen.*

34. *Perga belinda*.

(Plate II. fig. 3.).

Exp. al. 1 poll. 1 lin., long. corp. 9 lin.

Has a close superficial resemblance to *P. lewisii*. Testaceous, shading more or less into yellowish on the middle of the mesothorax and on the scutellum ; antennæ and an oval spot behind each eye blackish ; lateral ridges of thorax reddish brown ; abdomen rather pointed, shading into shining reddish chestnut towards the extremity, and with obsolete yellow spots on the sides. Undersurface yellowish testaceous, hind femora considerably dilated ; hind femora, hind tarsi, and terminal half of hind tibiæ reddish chestnut. Wings hyaline, costa and stigma reddish, nervures yellowish ; first submarginal nervule nearly obsolete, giving it the appearance of having only three submarginal cells, of which the last is much larger than all the rest together, and bounded towards the base by an angulated nervule.

*Hab.* South Australia.

*a, b.* ♀. (Types of species.) S. Australia. F. G. Waterhouse, Esq.

35. *Perga vollenhovii*.

*Perga vollenhovii*, *Westw. P. Z. S.* 1880, p. 365, pl. xxxiv. fig. 5.

*Hab.* Australia.

36. *Perga ritsemæ*.

*Perga ritsemei* (!), *Westw. P. Z. S.* 1880, p. 365, pl. xxxiv. fig. 7.

*Hab.* South and West Australia.

*a.* ♂. Swan River. Mr. Du Boulay.

37. *Perga dubia*.

(Plate II. fig. 9.).

Exp. al. 9-10 lin., long. corp. 6 lin.

Head black above ; cheeks, two spots on the vertex and two at the base of the antennæ testaceous, face and antennæ rather darker. Thorax black above, the usual elevations grooved ; a central spot, the sides of the thorax, and the scapula and scutellum testaceous ; pectus deep black ; the prothorax and two large spots under the wings testaceous ; legs rather darker. Abdomen testaceous ; first segment

black, second testaceous, bordered behind with black. Undersurface rather darker. Wings hyaline, with a slight yellowish tinge; costa, stigma, and nervures yellowish brown; costa very strongly arched, as in most species of this section, the first three submarginal cells are small, and the last very large.

*Hab.* West Australia.

|                                 |             |            |
|---------------------------------|-------------|------------|
| <i>a.</i> ♂. (Type of species.) | Swan River. | Purchased. |
| <i>b.</i> ♂.                    | Swan River. | Dr. Bacon. |

### 38. *Perga brullei*.

*Perga brullei*, *Westw. P. Z. S.* 1880, p. 364, pl. xxxiv. fig. 6.

*Hab.* South Australia; Queensland.

|              |              |              |
|--------------|--------------|--------------|
| <i>a.</i> ♂. | Moreton Bay. | Mr. Diggles. |
|--------------|--------------|--------------|

### 39. *Perga dahlbomii*.

*Perga dahlbomii*, *Westw. P. Z. S.* 1880, p. 371, pl. xxxv. figs. 3, 4.

*Hab.* West Australia.

|                 |             |                |
|-----------------|-------------|----------------|
| <i>a.</i> ♂.    | Australia.  | Purchased.     |
| <i>b, c.</i> ♀. | Swan River. | Mr. Du Boulay. |
| <i>d.</i> ♀.    | Swan River. | Dr. Bacon.     |
| <i>e.</i> ♂.    |             |                |

### Section iii.

*Antennæ 7-jointed, with a gradually-formed club.*

### 40. *Perga amenaida*.

(Plate II. fig. 10.)

Exp. al. 9 lin., long. corp. 5 lin.

Head and thorax black above, sparingly punctured; face, cheeks, two spots on the vertex, two at the base of the antennæ, and two between these and the eyes yellowish; mandibles tipped with black; antennæ reddish. Thorax with a slight depression on each side and a groove in front, between a yellowish V-spot; the back of the scapulæ, the sides of the thorax, and the scutellum are also yellow. Legs and the centre of the pectus testaceous; the rest of the under-surface of the body whitish. Abdomen steel-blue, with a slight greenish shade. Scutellum deeply cleft, and almost divided in two; hind femora dilated. Wings hyaline, with yellow nervures and costa; the costal half of the fore wings yellowish.

*Hab.* South Australia.

|                                 |           |            |
|---------------------------------|-----------|------------|
| <i>a.</i> ♂. (Type of species.) | Adelaide. | Purchased. |
|---------------------------------|-----------|------------|

41. *Perga jurinei*.

*Perga jurinei*, *Westw. P. Z. S.* 1880, p. 378, pl. xxxvii. fig. 6.

*Hab.* Australia.

*a.* ♂.

Australia.

Purchased.

42. *Perga mayrii*.

*Perga mayrii*, *Westw. P. Z. S.* 1880, p. 378, pl. xxxvii. fig. 7.

*Hab.* Swan River.

43. *Perga dentata*.

(Plate II. fig. 13.)

*Exp. al.* 1 poll. 3 lin., long. corp. 8 lin.

Head dull yellow; antennæ black, except the basal joint; vertex mostly black, but the ocelli yellow. A median black line, with a longitudinal depression on each side, runs to the occiput, and other black lines run behind the eyes. Thorax dull black, coarsely punctured, the front ridge with a central depression, but the lateral ridges not grooved; scapulæ and hinder part of the thorax bordered with yellow; scutellum yellow, indented both before and behind. Abdomen shining violet-black. All the undersurface of the body yellow, except the pectus and the central portion of the abdomen; on the sides of the abdomen the violet projects into the yellow at the hinder portion of each segment, giving the markings a saw-like appearance. Fore wings smoky yellow, with the costal cell, stigma, and nervures brown; hind wings vitreous, slightly clouded towards the extremity.

*Hab.* South Australia.

*a.* ♀. (Type of species.)

Adelaide.

Purchased.

44. *Perga rufomaculata*.

(Plate II. fig. 12.)

*Exp. al.* 1 poll., long. corp. 7 lin.

Allied to *P. dentata*. Violet-black above, head and thorax much less thickly punctured with shallow depressions. Head with the cheeks, two large spots on the vertex, two on which the antennæ are placed, and one on each side, and the face and undersurface yellowish or reddish; antennæ reddish, club darker. Thorax with the scapulæ, sides, and scutellum red. The front ridge of the thorax edged behind with a thick red V, the ends of which extend to the scapulæ, and there are also two smaller red spots in front of the scutellum. Pectus, legs, and sides and undersurface of abdomen red. Wings vitreous, smoky yellow towards the extremities, reddish towards the base and inner margin; nervures, costa, and stigma blackish, and stigma edged with reddish.

*Hab.* South Australia.

*a.* ♀. (Type of species.)

Adelaide.

Purchased.

45. *Perga jucunda*.

(Plate II. fig. 14.)

Exp. al. 1 poll. 1 lin., long. corp. 6 lin.

Bluish black, shading into dark shining violet on the back of the abdomen; antennæ broken, three first joints blue-black. Thorax with rounded and grooved elevations in front and at the sides, the groove in the front rather shallow. Vertex excavated in front and at the sides; cheeks, scutellum (which is grooved in the centre, and throws off a small projection at each hinder angle), a long spot on the sides of the pectus below the first pair of wings, and the sides of the abdomen orange. Wings smoky, the hind wings lighter: fore wings with brown nervures; costa and stigma brown, but the latter filled up with yellow on the costa. Bullæ very large and distinct; transverse cubital nervures interrupted on both pairs of wings.

Resembles *P. dentata*, but very distinct. Indicated by the late Mr. F. Smith as the type of a new genus.

*Hab.* West Australia.

a. ♀. (Type of species.)                      Perth.                      Purchased.

46. *Perga leachii*.

(Plate II. fig. 11.)

*Perga leachii*, *Westw. P. Z. S.* 1880, p. 377.

Exp. al. 11 lin., long. corp. 6 lin.

Head yellow, vertex (except the usual two spots) and tips of the jaws black, ocelli yellow; antennæ yellow, comparatively long and slender, club very gradually formed. Thorax dull reddish brown; frontal ridge triangular, black, and deeply grooved; back of thorax blackish. Abdomen dark reddish brown above, polished, and varied with darker. Undersurface of the body and legs wholly testaceous, except that there are two broad black stripes on each side of the pectus. Fore wings yellowish hyaline, with yellow costa, stigma, and nervures; hind wings hyaline.

This species stood in the British-Museum collection as *P. kirbii*, a very different insect.

*Hab.* Victoria.

a. ♀. (Type of species.)

47. *Perga halidaii*.

*Perga halidaii*, *Westw. P. Z. S.* 1880, p. 377, pl. xxxvii. fig. 5.

*Hab.* Victoria.

a. ♀.                      Victoria.                      R. Bakewell, Esq.

## 11. CEREALCES.

Antennæ 10-jointed, bare, widened at the extremities of the joints, and thickest in the middle, nearly as long as the head and thorax; thorax not ridged; scutellum large, with a deep longitudinal depres-

sion; abdomen much narrower than the thorax, about as long as the head and thorax together, and rounded off at the extremity.

Fore wings with one marginal, appendiculate cell, and four submarginal cells, gradually increasing in size, the second and third each receiving a recurrent nervure; no lanceolate cell: hind wings with one middle cell.

Tibiæ with two end spurs of moderate length, and the four hind tibiæ with middle spurs. Hind coxæ rather large; hind femora swollen and rather flattened.

Very distinct from *Perga*, with which, however, it agrees in neururation and in the structure of the legs.

### 1. *Cerealces scutellata*.

(Plate II. fig. 15.)

Exp. al. 7 lin., long. corp. 4 lin.

Black; head, thorax, and pectus thickly punctured; antennæ, jaws, and scutellum reddish, the cleft in the last black; labrum, cheeks, scapulæ, second and two last segments of the abdomen yellowish above, the intermediate segments shading into reddish in the middle, the segments slightly edged with yellowish below. Legs rufous; intermediate and hind coxæ pale yellowish, the latter black at base.

*Hab.* South Australia.

a. ♂. (Type of species.)

S. Australia.

Purchased.

### 12. *THULEA*.

*Thulea*, Say, *Bost. Journ.* i. p. 213 (1836).

#### 1. *Thulea nigra*.

*Thulea nigra*, Say, *Bost. Journ.* i. p. 213 (1836).

*Hab.* Mexico.

### 13. *ACORDULECERA*.

*Acordulecera*, Say, *Bost. Journ.* i. p. 209 (1836).

#### 1. *Acordulecera dorsalis*.

*Acordulecera dorsalis*, Say, *Bost. Journ.* i. p. 210 (1836).

*Hab.* Indiana.

### 14. *SYZYGONIA*.

*Syzygonia*, Klug, *Ent. Monogr.* p. 177 (1824); *St.-Farg. Ann. Soc. Ent. Fr.* ii. p. 456 (1853).

#### 1. *Syzygonia cyanoptera*.

*Syzygonia cyanoptera*, Klug, *Ent. Monogr.* p. 179 (1824); *Perty, Del. Anim. Art.* p. 130, pl. xxvi. fig. 4 (1830-34); *St.-Farg. Ann. Soc. Ent. Fr.* ii. pl. xvi. B (1833).

*Hab.* Brazil.

|       |              |              |
|-------|--------------|--------------|
| a. ♀. | Brazil.      | Mrs. Noel.   |
| b. ♀. | Rio Janeiro. | A. Fry, Esq. |
| c. ♀. |              |              |

## 2. *Syzygonia cyanocephala*.

*Syzygonia cyanocephala*, *Klug, Ent. Monogr.* p. 180 (1824).

*Hab.* Brazil.

a, b. ♀.

Purchased.

## 3. *Syzygonia ænea*.

*Syzygonia ænea*, *Perty, Del. Anim. Art.* p. 130, pl. xxvi. fig. 3 (1830-34).

*Hab.* Piaui, Brazil.

## 15. CORYNOPHILUS.

*Cephalocera*, *Klug (nec Latr.), Jahrb. d. Insectenkunde*, i. p. 252 (1834).

### 1. *Corynophilus pumilus*.

*Cephalocera pumila*, *Klug, Jahrb. d. Insect.* i. p. 252, pl. ii. fig. 10, *m* (1834).

*Hab.* Brazil.

### 2. *Corynophilus (?) calcar*.

*Cephalocera calcar*, *Nort. Trans. Amer. Ent. Soc.* i. p. 51 (1867).

*Hab.* Mexico.

## 16. INCALIA.

*Incalia*, *Cameron, Trans. Ent. Soc.* 1878, p. 143.

Antennæ short, 7-jointed, moderately thick, clothed with short hair; second joint a little shorter than the first, the third longer than the two first together; the remainder of about equal length; last joint conical. Abdomen rather short and thick; hind tibiæ with a spur in the middle. Fore wings with one marginal appendiculate cell and four submarginal cells; dividing nervules bullated: hind wings with one middle cell.

### 1. *Incalia hirticornis*.

(Plate II. fig. 16.)

*Incalia hirticornis*, *Cameron, Trans. Ent. Soc.* 1878, p. 144.

Exp. al. 13 lin., long. corp. 6 lin.

Head below the antennæ, basal joint of the latter, thorax, first pair of legs, middle coxæ and femora, and hind coxæ luteous; antennæ, abdomen, and legs otherwise blue-black; head above antennæ, and cheeks greenish blue; ocelli pale luteous; wings deep purplish, rather clearer towards the tips.

*Hab.* Amazons.

a. ♀.

Amazons.

H. W. Bates, Esq.

## 17. PARALYPIA.

Antennæ short, 8-jointed, thickened beyond the middle, third joint longest; head, thorax, and abdomen shaped nearly as in *Selandria*; legs unarmed, moderately long and thick. Wings with one marginal (appendiculate) and four submarginal cells, the second receiving the first recurrent nervure in the middle, and the second nervure received at the juncture of the second and third cells; no second anal vein or lanceolate cell: hind wings with one middle cell.

A genus of doubtful position, perhaps allied to *Cephalocera*, but with some resemblance to *Perreyia*.

1. *Paralypia picipes*.

(Plate II. fig. 17.)

Exp. al. 5 lin., long. corp.  $2\frac{1}{2}$  lin.

Black; thorax testaceous, with a black spot in front, and the scutellum black; pectus paler, black in the middle; first segment of abdomen bordered behind with white above; legs piceous. Wings hyaline; fore wings smoky at base and tip.

*Hab.* Amazons.

*a.* ♀. (Type of species.)      Santarem.      H. W. Bates, Esq.

## Subfamily II. HYLOTOMINÆ.

## 18. BLASTICOTOMA.

*Blasticotoma*, *Klug, Jahrb. d. Insectenkunde*, i. p. 251 (1834).

1. *Blasticotoma fliceti*.

*Blasticotoma fliceti*, *Klug, Jahrb. d. Insectenkunde*, i. p. 251, pl. ii. fig. 9, *l* (1834).

*Hab.* Germany.

*a.* ♀.      Germany.      J. F. Ruthe.

## 19. SERIOCERA.

*Sericocera*, *Brullé, Hym.* iv. p. 669 (1846).

1. *Sericocera edwardsii*.

*Sericocera edwardsii*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 2 (1880).

*Hab.* Mexico.

2. *Sericocera plumicornis*.

*Sericocera plumicornis*, *Nort. Trans. Amer. Ent. Soc.* i. p. 52 (1867).

*Hab.* Mexico.

3. *Sericocera villosus*.

*Sericocera villosus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 53 (1867).

*Hab.* Mexico.

4. *Sericocera alternator*.

*Sericocera alternator*, *Nort. Trans. Amer. Ent. Soc.* i. p. 53 (1867).

*Hab.* Mexico.

5. *Sericocera spinolæ*.

*Sericocera spinolæ*, *Brullé, Hym.* iv. p. 669, pl. xlvii. fig. 5 (1846).

*Hab.* South America.

a. ♀.

Ega.

H. W. Bates, Esq.

6. *Sericocera pubicornis*.

*Hylotoma pubicornis*, *Fabr. Syst. Piez.* p. 21, n. 5 (1804); *Klug, Wiedem. Zool. Mag.* i. pt. 3, p. 68, pl. ii. fig. 2 (1829).

*Hab.* South America.

## 20. SCHIZOCERUS.

*Schizocerus*, *Curt. Guide*, p. 69 (1829); *Steph. Ill. Brit. Mand.* vii. p. 19 (1835).

*Schizocère*, *Latr. Fam. Nat.* p. 442 (1825).

*Schizocera*, *Hart. Blattw.* p. 87 (1837).

*Cryptus*, *Leach, Zool. Misc.* iii. pp. 121, 125 (1817); *Curt. Brit. Ent.* ii. pl. lviii. (1824), *nec Cryptus auct. al.*

*Cyphona*, *Dahlb. Consp. Tenth.* p. 6 (1835)\*.

1. *Schizocerus geminatus*.

*Tenthredo geminata*, *Gmel. Syst. Nat.* (i.) v. p. 2668, n. 137 (1789).

*Hylotoma geminata*, *Klug, Berl. Mag.* vi. p. 305, n. 36 (1814).

*Cryptus pallipes*, *Leach, Zool. Misc.* iii. p. 125, n. 3 (1817); *Curt. Brit. Ent.* ii. pl. lviii. (1824).

*Hylotoma costata*, *Fall. Vetensk. Akad. Handl.* xxix. p. 45 (1808).

*Schizocera geminata*, *Zadd. Schrift. Königsb.* iv. p. 114 (1863).

*Hab.* Europe.

a, b. ♂ ♀.

c. ♂. (Type of *C. pallipes*.)

d. ♀.

Britain.

Coombe Wood.

Germany.

J. F. Stephens.

W. E. Leach.

J. F. Ruthe.

\* Thomson divides this genus; but as the original types of *Schizocerus* and *Cyphona* are identical, *Schizocerus*, as restricted by Thomson, will require a new name, if ultimately retained as a separate genus.



**2. Schizocerus pallipes.**

*Schizocera pallipes*, *Bremi, Stett. ent. Zeit.* x. p. 94 (1849).

*Hab.* Switzerland.

**3. Schizocerus bifurcus.**

*Hylotoma bifurca*, *Klug, Jahrb. d. Insect.* i. p. 244, n. 73 (1834).

*Hab.* Prussia, Courland.

**4. Schizocerus fuscus.**

*Schizocera fusca*, *Zadd. Schrift. Königsb.* iii. pl. iii. fig. 11 (1862), iv. p. 116 (1863).

*Hab.* Königsberg.

**5. Schizocerus instratus.**

*Schizocera instrata*, *Zadd. Beschr. Blattw.* p. 8, fig. 2 (1859); *id. Schrift. Königsb.* iv. p. 117 (1863).

*Hab.* Königsberg.

**6. Schizocerus furcatus.**

*Tenthredo furcata*, *Vill. Ent.* iii. p. 86, n. 19, pl. vii. figs. 16, 17 (1789); *Fab. Suppl.* p. 215 (1789); *Panz. Faun. Germ.* Heft 46, pl. i. (1797).

*Hylotoma furcata*, *Klug, Berl. Mag.* vi. p. 301, n. 31 (1814).

*Tenthredo rubi idæi*, *Rossi, Faun. Etr.* ii. p. 31, n. 731 (1790).

*Cryptus villersii*, *Leach, Zool. Misc.* iii. p. 124 (1817).

*Hab.* Europe.

|                   |              |                 |
|-------------------|--------------|-----------------|
| <i>a.</i> ♂.      | Britain.     | J. F. Stephens. |
| <i>b, c.</i> ♂ ♀. | Britain.     |                 |
| <i>d.</i> ♂.      | Montpellier. | F. Walker.      |
| <i>e-h.</i> ♂ ♀.  | Germany.     | J. F. Ruthe.    |

**7. Schizocerus inæqualis.**

*Schizocera inæqualis*, *Bremi, Stett. ent. Zeit.* x. p. 94 (1849).

*Hab.* Switzerland.

**8. Schizocerus bifidus.**

*Hylotoma bifida*, *Klug, Jahrb. d. Insect.* i. p. 244, n. 72 (1834).

*Hab.* Pomerania.

**9. Schizocerus axillaris.**

*Schizocera axillaris*, *Zadd. Schrift. Königsb.* iii. pl. iii. fig. 12 (1862), iv. p. 121 (1863).

*Schizocera zaddachi*, *André, Spec. Hym.* i. p. 53 (1879).

*Hab.* Insternburg.

10. *Schizocerus gastricus*.

*Hylotoma gastrica*, *Klug, Berl. Mag.* vi. p. 304, n. 33 (1814).

*Hab.* Portugal.

11. *Schizocerus intermedius*.

*Schizocera intermedia*, *Zadd. Schrift. Königsb.* iv. p. 121 (1863).

*Hab.* Europe.

12. *Schizocerus fusicornis*.

*Schizocera fusicornis*, *Thoms. Hym. Scand.* i. p. 46 (1871).

*Hab.* Sweden.

13. *Schizocerus melanurus*.

*Hylotoma melanura*, *Klug, Berl. Mag.* vi. p. 303, n. 33 (1814).

*Schizocera cognata*, *Costa, Ric. ent. sopra i Monte Partenii*, pp. 17, 26, note 20 (1858); *id. Faun. Nap., Ilot.* p. 9, pl. lxi. fig. 7 (1859).  
♀. *Schizocera flavipes*, *Zadd. Schrift. Königsb.* iv. p. 120 (1863).

*Hab.* Europe.

a. ♂.

Germany.

J. F. Ruthe.

14. *Schizocerus brevicornis*.

*Hylotoma brevicornis*, *Fall. Vetensk. Akad. Handl.* xxix. p. 44 (1808);  
*Mon. Tenth.* p. 24, n. 9 (1829).

*Schizocera brevicornis*, *Thoms. Hym. Scand.* i. p. 43 (1871).

*Hylotoma tarda*, *Klug, Berl. Mag.* vi. p. 304, n. 34 (1814).

*Hab.* Prussia, Sweden.

15. *Schizocerus cylindricornis*.

*Schizocera cylindricornis*, *Thoms. Hym. Scand.* i. p. 44 (1871).

*Hab.* Sweden.

16. *Schizocerus geniculatus*.

*Schizocera geniculata*, *Thoms. Hym. Scand.* i. p. 45 (1871).

*Hab.* Sweden.

17. *Schizocerus melanocephalus*.

*Tenthredo melanocephala*, *Panz. Faun. Germ.* Heft 64, pl. v. (1799).

*Tenthredo angelicæ*, *Panz. l. c.* Heft 72, pl. i. (1799).

*Hylotoma angelicæ*, *Klug, Berl. Mag.* vi. p. 302, n. 32 (1814).

*Tenthredo taraxaci*, *Panz. Ent. Versl.* ii. p. 24 (1806).

*Hab.* Europe.

a. ♀.  
b. ♀.

Germany.  
Europe\*.

J. F. Ruthe.  
W. E. Leach.

### 18. *Schizocerus peletieri*.

*Schizocerus peletieri*, *De Villaret, Ann. Soc. Ent. Fr.* i. p. 304, pl. xi. figs. 1-3 (1832).

*Schizocera peletieri*, *Zadd. Schrift. Königsb.* iv. p. 123 (1863).

*Hab.* Paris.

### 19. *Schizocerus scutellaris*.

*Hylotoma scutellaris*, *Herr.-Schäff. Panzer's Insecten*, Heft 129, pl. iv. (1834).

*Hab.* Austria.

### 20. *Schizocerus vittatus*.

*Schizocera vittata*, *Mocs. Term. füzetek* iii. p. 115 (1879).

*Hab.* Buda.

### 21. *Schizocerus abdominalis*.

*Schizocerus abdominalis*, *Cress. Proc. Ent. Soc. Phil.* iv. p. 243 (1865).

♀. ? *S. plumiger*, *Cress. l. c.* p. 242 (1865).

*Hab.* Colorado.

### 22. *Schizocerus plumiger*.

(Plate III. figs. 7 & 8.)

*Hylotoma plumigera*, *Klug, Berl. Mag.* vi. p. 306, n. 37 (1814).

*Schizocerus plumigera*, *Nort. Trans. Amer. Ent. Soc.* i. p. 54 (1867).

*Cryptus klugii*, *Leach, Zool. Misc.* iii. p. 125, n. 2 (1817).

Exp. al. 6 lin., long. corp. 3 lin.

*Male.* Head black; antennæ long, furcate, with very long cilia; thorax and pectus black; scapulæ, tegulæ, and pleura yellow; front legs testaceous; four hind legs black, with yellowish knees. Abdomen yellow, shining, tip black. Wings hyaline, with piceous nervures, smoky towards the base.

*Female* similar, but the antennæ are simple, and the thorax and pectus are of a darker yellow than the abdomen, but not black.

*Hab.* Georgia.

a, b. ♂ ♀. (Types of *C. klugii*.)

Georgia.

W. E. Leach.

---

\* Many writers regard this species as a form of the female of *S. furcatus*. The male is still unknown; but as some species of *Tenthredinidæ* are parthenogenetic, the question must remain undecided until further evidence is obtained.

**23. Schizocerus krugii.**

Schizocera krugii, *Cress. Trans. Amer. Ent. Soc.* viii. p. 2 (1880).  
*Hab.* Porto Rico.

**24. Schizocerus privatus.**

Schizocerus privatus, *Nort. Trans. Amer. Ent. Soc.* i. p. 56 (1867).  
*Hab.* New Orleans.

**25. Schizocerus brunniventris.**

Schizocera brunniventris, *Cress. Trans. Amer. Ent. Soc.* viii. p. 2 (1880).  
*Hab.* Nevada.

**26. Schizocerus ebenus.**

Schizocerus ebenus, *Nort. Trans. Amer. Ent. Soc.* i. p. 55 (1867).  
*Hab.* New York.

**27. Schizocerus tristis.**

Schizocera tristis, *Cress. Trans. Amer. Ent. Soc.* viii. p. 52 (1880).  
*Hab.* Washington Territory.

**28. Schizocerus maurus.**

Schizocera maura, *Nort. Trans. Amer. Ent. Soc.* viii. p. 3 (1880).  
*Hab.* Nevada.

**29. Schizocerus sericeus.**

Schizocerus sericeus, *Nort. Trans. Amer. Ent. Soc.* i. p. 55 (1867).  
*Hab.* Maine, Illinois.

**30. Schizocerus (?) invitus.**

Schizocera (?) invita, *Cress. Trans. Amer. Ent. Soc.* viii. p. 3 (1880).  
*Hab.* Nevada.

**31. Schizocerus filicornis.**

Hylotoma filicornis, *Klug, Jahrb. d. Insect.* p. 244, n. 74 (1834).  
*Hab.* Brazil.

**32. Schizocerus obscurus.**

Schizocera obscura, *Brullé, Hym.* iv. p. 668, pl. xlvii. fig. 4 (1846).  
*Hab.* South America.

## 21. TRICHORHACHUS.

Intermediate between *Schizocerus* and *Hylotoma*.

Head moderately large; antennæ with the first two joints very short; the third long and bifurcated in the male, the branches appearing almost to spring from the head, in consequence of the shortness of the basal joints. The branches are clothed with long cilia on the outside; the inner branch is straight, and the outer one curves round so as almost to meet it at the tip. Antennæ in the female simple and very short. Wings with one marginal appendiculate cell and three submarginal cells; the stigma is very large, and the nervure beneath it is curved in such a manner that both the marginal cell and the first submarginal cell are narrowed and contracted at their base; lanceolate cell small, petiolated. Legs not dilated; four hind tibiæ with middle spurs.

1. *Trichorhachus australis*.

*Hylotoma* (*Schizocera*) *australis*, *Westw. Arc. Ent.* i. pl. vii. fig. 2 (1841).

*Hab.* West Australia.

2. *Trichorhachus sobrinus*.

(Plate III. fig. 3.)

Exp. al. 6 lin., long. corp. 3 lin.

Shining bluish green; cheeks, antennæ, head below the antennæ, and the extremity of the abdomen beneath testaceous; front tibiæ and tarsi testaceous, the four hinder ones brownish above and pale beneath. Wings hyaline at the base, and infuscated beyond the middle.

*Hab.* Australia?

*a.* ♂. (Type of species.)

Australia?

3. *Trichorhachus hyalinus*.

(Plate III. fig. 4.)

Precisely similar to *T. sobrinus*, but the front tibiæ and tarsi are brown and the four hinder ones blue, and the wings are hyaline and iridescent.

*Hab.* West Australia.

*a.* ♂. (Type of species.)

Swan River.

Mr. Du Boulay.

4. *Trichorhachus nitidus*.

(Plate III. figs. 1 & 2.)

Exp. al. 5 lin., long. corp.  $2\frac{1}{2}$  lin.

Head and thorax coppery green; abdomen blue, greenish beneath;

cheeks, antennæ, tibiæ, tarsi, and extreme apex of the abdomen luteous. Wings clear hyaline, iridescent; stigma brown.

*Hab.* West Australia.

*a, b.* ♂ ♀. (Types of species.)      Swan River.      Mr. Du Boulay.

### 5. *Trichorhachus abdominalis*.

(Plate III. fig. 5.)

*Exp. al.* 6 lin., long. corp. 3 lin.

Shining black, basal two thirds of the abdomen beneath reddish brown; tibiæ and tarsi testaceous, face yellowish; hind tibiæ black at the extremity, and hind tarsi ringed with black. Wings clear hyaline, iridescent, with black nervures and stigma.

*Hab.* West Australia.

*a.* ♂. (Type of species.)      Swan River.      Mr. Du Boulay.

## 22. *ATOMACERA*.

*Atomacera*, *Say, Bost. Journ.* i. p. 212 (1835).

### 1. *Atomacera debilis*.

*Atomacera debilis*, *Say, Bost. Journ.* i. p. 212, n. 1 (1835).

*Hab.* Indiana.

### 2. *Atomacera cellularis*.

*Atomacera cellularis*, *Say, Bost. Journ.* i. p. 213, n. 2 (1835).

*Hab.* Indiana.

### 3. *Atomacera ruficollis*.

*Atomacera ruficollis*, *Norton, Proc. Ent. Soc. Phil.* iii. p. 6 (1864).

*Hab.* Georgia.

*a.* ♀.      Georgia.      Probably from Abbot's collection.

## 23. *SCOBINA*.

*Scobina*, *St.-Farg. & Serv. Enc. Méth.* x. p. 574 (1825).

### 1. *Scobina hyaloptera*.

*Schizocera hyaloptera*, *Perty, Del. Anim. Art.* p. 130, pl. xxvi. fig. 6 (1830-34).

*Hab.* Amazons.

2. *Scobina melanocephala*.

*Hylotoma melanocephala*, *St.-Farg. Mon. Tenthr.* p. 48, n. 140 (1823).

*Hab.* Amazons.

*a-d.* ♂ ♀.

Amazons.

H. W. Bates, Esq.

3. *Scobina bicolor*.

(Plate III. fig. 6.)

*Exp. al.* 7 lin., *long. corp.* 3 lin.

Head, antennæ, scutellum, pectus, abdomen, and legs black; thorax and scapulæ luteous. Fore wings smoky hyaline, darker at the base; hind wings hyaline, clouded at base. The fore wings have a black spot near the extremity of the first median cell, and another in the second cubital cell; the nervule which divides the first and second cubital cells is incomplete.

Mr. Cameron has indicated this species to me as his *Dielocera* (?) *crassicornis*; but the neururation does not agree with his description.

*Hab.* Amazons.

*a.* ♀. (Type of species.)

Villa Nova.

H. W. Bates, Esq.

4. *Scobina gibba*.

*Hylotoma gibba*, *Klug, Jahrb. d. Insect. i.* p. 245, n. 77, pl. ii. fig. 7, *h* (1834).

*Hab.* Tropical America.

*a, b.* ♀.

Ega.

H. W. Bates, Esq.

*c.* ♀.

Honduras.

Mr. Dyson.

## 24. GYMNIA.

*Gymnia*, *Spin. Mem. Accad. Torino* (2) xiii. p. 23 (1853).

*Trailia*, *Cameron, Trans. Ent. Soc. Lond.* 1878, p. 148.

*Hylotoma*, sect. 8, *Klug, Jahrb. d. Insect. i.* p. 249 (1834)\*.

1. *Gymnia urcacensis*.

*Trailia urcacensis*, *Cameron, Trans. Ent. Soc. Lond.* 1878, p. 149.

*Hab.* Rio Purus.

2. *Gymnia analis*.

*Trailia analis*, *Cameron, Trans. Ent. Soc. Lond.* 1878, p. 149.

*Hab.* Brazil.

---

\* Brullé (*Hym. iv.* p. 668) quotes *Gymnia*, *St.-Farg. MS.*, as equivalent to the female of *Didymia*; but if, as I believe, the former name was never otherwise published, it can hardly be considered to be thus preoccupied. *Themos*, Norton, appears only to differ from *Gymnia* by the first submarginal cell receiving both recurrent nervures, whereas in *Gymnia* they are received by the first and second.

3. *Gymnia apicalis*.

*Gymnia apicalis*, *Spin. Mem. Accad. Torino* (2) xiii. p. 23 (1853).

*Hab.* Para.

4. *Gymnia tibialis*.

*Gymnia tibialis*, *Spin. Mem. Accad. Torino* (2) xiii. p. 23 (1853).

*Trailia compressicornis*, *Cameron, Trans. Ent. Soc. Lond.* 1878, p. 149.

*Hab.* Para.

5. *Gymnia præcox*.

*Hylotoma præcox*, *Klug, Jahrb. d. Insect.* i. p. 249, n. 92 (1834).

*Hab.* Bahia.

6. *Gymnia nigrolineata*.

*Trailia nigrolineata*, *Cameron, Trans. Ent. Soc. Lond.* 1878, p. 150.

*Hab.* Bahia.

7. *Gymnia compressicornis*.

*Hylotoma compressicornis*, *Klug, Jahrb. d. Insect.* i. p. 249, no. 93 (1834).

*Hab.* Amazons.

*a.* ♀.

Santarem.

H. W. Bates, Esq.

8. *Gymnia mesomela*.

*Hylotoma mesomela*, *Klug, Jahrb. d. Insect.* p. 250, n. 94 (1834).

*Hab.* Brazil.

9. *Gymnia inconspicua*.

(Plate III. figs. 9 & 10.)

Exp. al.  $5\frac{1}{2}$  lin., long. corp. 3 lin.

Black; scapulæ testaceous, front of pectus, first pair of legs, and knees paler. Wings clear hyaline towards the base, with black stigma and nervures; the apical third is dusky as far as the discoidal nervure of the hind wings. Male with bifurcate, curled, and strongly ciliated antennæ, and a dusky band filling up the centre of the fore wings, leaving the base, below the costal cell, and the apex of the wing hyaline. Hind wings with the outer half dusky as far as the discoidal nervure. Basal half of the hind tibiæ testaceous in the male.

*Hab.* Amazons.

*a-d.* ♂ ♀. (Types of species.)

Santarem.

H. W. Bates, Esq.



10. *Gymnia hypoleuca*.

*Hylotoma hypoleuca*, *Klug, Jahrb. d. Insect.* i. p. 250, n. 95 (1834).

*Hab.* South America.

*a.* ♂.

Amazons.

H. W. Bates, Esq.

11. *Gymnia nigrita*.

*Hylotoma nigrita*, *Klug, Jahrb. d. Insect.* i. p. 250, n. 96 (1834).

*Hab.* Brazil.

12. *Gymnia piceiventris*.

*Hylotoma piceiventris*, *Klug, Jahrb. d. Insect.* i. p. 250, n. 97 (1834).

*Hab.* Brazil.

13. *Gymnia pilicornis*.

*Schizocera pilicornis*, *Holmgr. Eugenies Resa, Ins.* i. p. 391 (1868).

*Hab.* Brazil.

14. *Gymnia axillaris*.

*Schizocera axillaris*, *Spin. Ann. Soc. Ent. Fr.* ix. p. 130 (1840).

*Hab.* Cayenne.

15. *Gymnia mexicana*.

(Plate III. fig. 17.)

Exp. al. 8 lin., long. corp.  $3\frac{1}{2}$  lin.

Luteous; head above and antennæ black, tibiæ and tarsi also black, the four front pairs luteous on the inside. Wings hyaline, costa and stigma black; base of the fore wings and a transverse shade running from the stigma smoky brown; a black dot near the extremity of the first submarginal cell.

*Hab.* Mexico.

*a.* ♀. (Type of species.)

Orizaba.

M. Sallé.

## 25. THEMOS.

*Themos*, *Nort. Trans. Amer. Ent. Soc.* i. p. 58 (1867).

*Hylotoma*, § 7, *Klug, Jahrb. d. Insect.* i. p. 249 (1834).

1. *Themos hyalinus*.

*Themos hyaline*, *Nort. Trans. Amer. Ent. Soc.* i. p. 58 (1867).

*Hab.* Pennsylvania.

2. *Themos olfersii*.

*Hylotoma olfersii*, *Klug, Jahrb. d. Insect. i.* p. 249, n. 91 (1834).

*Hab.* Brazil.

3. *Themos surinamensis*.

*Hylotoma surinamensis*, *Klug, Berl. Mag. vi.* p. 307, n. 38 (1814).

*Hab.* Surinam.

## 26. PTILIA.

*Ptilia*, *St.-Farg. Mon. Tenth.* p. 49 (1823); *Enc. Méth. x.* p. 237 (1825).

*Didymia*, *St.-Farg. & Serv. Enc. Méth. x.* p. 574 (1825).

*Rusobria*, *Cameron, Trans. Ent. Soc.* 1878, p. 150.

*Hylotoma*, § 4, *Klug, Jahrb. d. Insect. i.* p. 245 (1834).

1. *Ptilia peletieri*.

*Schizocerus peletieri*, *Gray, Griff. Anim. Kingd. xv.* p. 403, pl. lxvi. fig. 1 (1832).

*Hab.* Carthagenæ.

2. *Ptilia brasiliensis*.

*Ptilia brasiliensis*, *St.-Farg. Mon. Tenth.* p. 50, n. 143 (1823).

*Schizocera xanthoptera*, *Perty, Del. Anim. Art.* p. 130, pl. xxvi. fig. 5 (1830-34).

*Hylotoma xanthoptera*, *Klug, Jahrb. d. Insect. i.* p. 245 (1834).

*Hab.* Brazil.

a. ♂. Brazil.

b. ♀. Rio Janeiro.

c. ♀. Rio Janeiro.

A. Fry, Esq.

From the Voyage of the 'Rattlesnake.'

(Collected by J. MacGillivray, Jan. 1848.)

d-f. ♀\*.

3. *Ptilia melanura*.

*Ptilia melanura*, *St.-Farg. & Serv. Enc. Méth. x.* p. 238 (1825).

*Hab.* South America.

4. *Ptilia megaptera*.

*Rusobria megaptera*, *Cameron, Trans. Ent. Soc.* 1878, p. 151.

*Hab.* Brazil.

\* St.-Fargeau, in his original description, states that the thorax is black. He corrected this error in the 'Encyclopédie Méthodique,' but it has hitherto prevented his genus and typical species from being properly recognized. One of the specimens in the British Museum is labelled *peletieri*, Gray, but has no resemblance to the figure of that species.

5. *Ptilia melanictera*.

*Hylotoma melanictera*, *Klug, Berl. Mag.* vi. p. 309, n. 41 (1814).

*Hab.* South America.

- |        |               |               |
|--------|---------------|---------------|
| a. ♀.  | Brazil.       |               |
| b. ♂ ? | Rio Janeiro*. | J. Gray, Esq. |

6. *Ptilia martini*.

*Hylotoma martini*, *St.-Farg. Mon. Tenth.* p. 48, n. 139 (1823).

*Didymia martini*, *Brullé, Hym.* iv. p. 669, pl. xlvii. fig. 8 (1846).

*Hab.* South America.

- |       |          |
|-------|----------|
| a. ♀. | Guiana ? |
|-------|----------|

7. *Ptilia trigemina*.

*Hylotoma trigemina*, *Klug, Berl. Mag.* vi. p. 307, no. 39 (1814).

*Hab.* South America.

- |         |            |                   |
|---------|------------|-------------------|
| a. ♂.   | Santarem.  | H. W. Bates, Esq. |
| b. ♀.   | St. Paulo. | H. W. Bates, Esq. |
| c-e. ♀. | Amazons.   |                   |
| f. ♀.   | Brazil †.  |                   |

8. *Ptilia ochrostigma*.

*Schizocerus ochrostigma*, *Curt. Trans. Linn. Soc.* xix. p. 255 (1845).

*Hab.* Brazil.

9. *Ptilia verticalis*.

*Didymia verticalis*, *Spin. Mem. Accad. Torino* (2) xiii. p. 22 (1853).

*Hab.* Para.

10. *Ptilia leucosoma*.

*Rusobria leucosoma*, *Cameron, Trans. Ent. Soc.* 1878, p. 151.

*Hab.* Amazons.

- |       |          |                   |
|-------|----------|-------------------|
| a. ♀. | Ega.     | H. W. Bates, Esq. |
| b. ♀. | Amazons. |                   |

\* The female differs from Klug's description in the thorax being black in front and at the sides; but I have no doubt of the correctness of the identification. The supposed male has a black spot in the middle of the thorax above, and all the legs yellow.

† In some specimens the antennæ are entirely black, in others the extremities of the tibiæ as well as the tarsi are black, and in others the tip of the abdomen is black.

11. *Ptilia concinna*.

*Hylotoma concinna*, *Klug, Jahrb. d. Insect. i. p. 146, n. 82, pl. ii. fig. 8* (1834).

*Hab.* Mexico.

12. *Ptilia basipunctata*.

(Plate III. fig. 11.)

Exp. al. 9 lin., long. corp.  $4\frac{1}{2}$  lin.

Pale testaceous; vertex, centre of metathorax (but not the sides, scapulæ, or scutellum), and the extremity of abdomen black above; antennæ compressed, finely ciliated, yellowish at the base and blackish beyond the middle. Legs testaceous, except the tips of the hind tibiæ and the last three or four joints of the hind tarsi, which are black. Wings hyaline, brown at the base and extremity. Fore wings narrowly vitreous at the extreme base, and with two vitreous spots in the median and submedian cells; the stigma and adjoining portion of the costa, above the vitreous part of the wing, are yellow, and the vitreous portion extends along the third discoidal cell to the hind margin. On the hind wings the dark coloration at the base is uninterrupted, but ceases at the anal nervure; and that on the border grows suddenly narrower below the discoidal nervure.

Allied to *Hylotoma concinna*, but can hardly be the female of that species.

*Hab.* Mexico, Honduras.

a. ♀. {  
b. ♀. { (Types of species.)

Vera Cruz.  
Honduras.

M. Sallé.  
Mr. Dyson.

13. *Ptilia versicolor*.

*Hylotoma versicolor*, *Klug, Jahrb. d. Insect. i. p. 246, n. 83* (1834).  
*Didymia versicolor*, *Nort. Trans. Amer. Ent. Soc. i. p. 60* (1867).

*Hab.* Mexico.

14. *Ptilia carinata*.

*Rusobria carinata*, *Cameron, Trans. Ent. Soc. 1878, p. 151*.

*Hab.* Brazil.

15. *Ptilia bicolor*.

(Plate III. fig. 12.)

Exp. al. 6 lin., long. corp. 3 lin.

Head above, centre of thorax in front, and abdomen black; the remainder of the thorax, the scutellum, and first segment of the abdomen reddish; face and legs (except the tips of hind tibiæ and the hind tarsi, which are black) pale testaceous; the rest of the

undersurface of the body entirely black except the pleura and sides of the pectus in front, which are reddish. Fore wings smoky brown, with two vitreous stripes running downwards on each side of the very large stigma, the first broadest at its lower extremity, where it is intersected by a nervure, the second rather oblique and running towards the anal angle. Hind wings hyaline, the inner and hind margins somewhat clouded.

*Hab.* Brazil.

*a.* ♀. (Type of species.)                      Tapajos.                      H. W. Bates, Esq.

### 16. *Ptilia nasicornis*.

*Schizocerus nasicornis*, *Curt. Trans. Linn. Soc.* xix. p. 254 (1845).

*Hab.* Brazil.

### 17. *Ptilia elegans*.

*Hylotoma elegans*, *Klug, Jahrb. d. Insect.* i. p. 247, n. 8 (1834).

*Hab.* Brazil.

### 18. *Ptilia lugubris*.

*Hylotoma lugubris*, *Klug, Jahrb. d. Insect.* i. p. 247, n. 85 (1834).

*Hab.* Brazil.

### 19. *Ptilia hirticornis*.

*Hylotoma hirticornis*, *Klug, Jahrb. d. Insect.* i. p. 247, n. 86 (1834).

*Hab.* Brazil.

### 20. *Ptilia fusca*.

*Hylotoma fusca*, *Klug, Jahrb. d. Insect.* i. p. 247, n. 87 (1834).

*Hab.* Mexico.

### 21. *Ptilia pumilio*.

(Plate III. fig. 13.)

Exp. al.  $3\frac{1}{2}$  lin., long corp. 2 lin.

Black, legs pitchy; thorax with the scapulæ and scutellum entirely luteous above, except a triangular black spot in front. Wings infuscated, with pitchy nervures; hind wings and apical third of the fore wings nearly hyaline; third cubital nervure of the fore wings running obliquely towards the base, but not much curved.

*Hab.* Amazons.

*a.* ♀. (Type of species.)                      Amazons.                      H. W. Bates, Esq.

22. *Ptilia soror*.

(Plate III. fig. 14.)

Exp. al. 6 lin., long. corp. 3 lin.

Very similar to *P. pumilio*, but twice the size. Wholly black, except the middle of the thorax, which is rufous; but the scapulæ, scutellum, and a large triangular spot in front of the thorax are black. Wings smoky hyaline, with black nervures; darker towards the base of the fore wings. Third cubital nervure strongly angulated outwards on its upper portion.

*Hab.* Amazons.*a.* ♀. (Type of species.)

Amazons.

H. W. Bates, Esq.

23. *Ptilia* (?) *melanalis*.. *Tenthredo melanalis*, *St.-Farg. Men. Tenthr.* p. 115, n. 135 (1823).*Hylotoma analis*, *Fabr. Syst. Piez.* p. 27, n. 27 (1804).*Hab.* South America.27. **TOPOTRITA.***Hylotoma*, § 6, *Klug, Jahrb. d. Insect.* i. p. 248 (1834).

Fore wings with three submarginal cells, the second receiving both recurrent nervures; one marginal, appendiculate cell; tibiæ unarmed.

1. *Topotrita leucocephala*.*Hylotoma leucocephala*, *Klug, Jahrb. d. Insect.* i. p. 248, n. 89 (1834);*Spin. Ann. Soc. Ent. Fr.* ix. p. 132 (1840).*Hab.* Cayenne.28. **HEMIDIANEURA.***Ptilia*, *Norton (nec St.-Farg.)*, *Trans. Amer. Ent. Soc.* i. p. 61 (1867).*Hylotoma*, § 2, *Klug, Jahrb. d. Insect.* i. p. 240 (1834).

Wings with one marginal (appendiculate) and four submarginal cells; the first recurrent nervure received in the middle of the second submarginal cell; the second nervure received at or beyond the junction of the second and third submarginal cells. Antennæ 3-jointed, first two joints very short; third joint bifurcate and ciliate in the males, simple, setose, and sometimes curled in the females.

1. *Hemidianeura filiformis*.*Ptilia filiformis*, *Nort. Trans. Amer. Ent. Soc.* i. p. 62 (1867).*Hab.* Mexico.*a.* ♀.

Mexico.

M. Sallé.

2. *Hemidianeura mexicana*.

*Ptilia mexicana*, Cresson, *Trans. Amer. Ent. Soc.* viii. p. 3 (1880).

*Hab.* Mexico.

3. *Hemidianeura scapularis*.

(Plate III. fig. 15.)

Exp. al.  $5\frac{1}{2}$  lin., long. corp. 3 lin.

Black, shining; scapulæ, sides of thorax, mouth, and legs testaceous; basal half of the femora, tips of the hind tibiæ, and the hind tarsi black. Wings hyaline, slightly clouded, with black nervures.

*Hab.* Mexico.

a. ♂. (Type of species.)

Oajaca.

M. Sallé.

4. *Hemidianeura plumicornis*.

*Hylotoma plumicornis*, Klug, *Jahrb. d. Insect.* i. p. 241, n. 60 (1834).

*Hab.* Brazil.

5. *Hemidianeura nigricornis*.

(Plate III. fig. 16.)

Exp. al. 9 lin., long. corp.  $3\frac{1}{2}$  lin.

Testaceous; head above, antennæ, extremity of abdomen, and tibiæ and tarsi black; the front tibiæ and the articulations of the front tarsi whitish on the inside. Wings hyaline, brownish at the extremities; fore wings with the base, costa, and stigma piceous.

Appears to be closely allied to *D. plumicornis*.

*Hab.* Amazons.

a. ♀. (Type of species.)

Santarem.

H. W. Bates, Esq.

6. *Hemidianeura gonagra*.

*Hylotoma gonagra*, Klug, *Jahrb. d. Insect.* i. p. 241, n. 61 (1834).

*Hab.* South Brazil.

7. *Hemidianeura ovalis*.

*Hylotoma ovalis*, Klug, *Jahrb. d. Insect.* i. p. 241, n. 62 (1834).

*Hab.* Montevideo.

8. *Hemidianeura ehippiata*.

*Hylotoma ehippiata*, Klug, *Jahrb. d. Insect.* i. p. 242, n. 63 (1834).

*Hab.* Surinam.

9. *Hemidianeura crassicornis*.

*Dielocera* (?) *crassicornis*, *Cameron, Trans. Ent. Soc. Lond.* 1878, p. 146.

*Hab.* Amazons.

29. *DIELOCERUS*.

*Hylotoma*, § 5, *Klug, Jahrb. d. Insect.* i. p. 248 (1834).

*Dielocerus*, *Curt. Trans. Linn. Soc.* xix. p. 250 (1845).

1. *Dielocerus ellisii*.

(Plate IV. fig. 1.)

*Dielocerus ellisii*, *Curt. Trans. Linn. Soc.* xix. p. 249, pl. xxxi. figs. 1, 2 (1845).

♂. *Dielocera curtisi*, *Cameron, Trans. Ent. Soc. Lond.* 1878, p. 147.

*Female.* Exp. al. 1 poll., long. corp. 6 lin.

Head, thorax, and first two pairs of legs rufo-testaceous; first two joints of antennæ of the same colour, the second brownish above; third joint of antennæ, abdomen, hind tibiæ above, and four last joints of hind tarsi blue-black; hind femora, base of tibiæ, and first joint of tarsi ochraceous. Fore wings hyaline, with the base, a band across the centre, and the extremity of the third submarginal cell smoky brown, with a violaceous shade: hind wings smoky hyaline, with a violaceous shade, and more or less clear before the apex.

Judging from the analogy of the sexes in *Ptenus serratus*, I have no doubt that the insect with transparent wings which Curtis figures as the male really is so. None of our four female specimens have more than three submarginal cells.

*Hab.* Brazil.

a. ♀. (Type of species.)

Brazil.

b, c. ♀.

Brazil.

Purchased.

d. ♀.

2. *Dielocerus carbonarius*.

*Dielocera carbonaria*, *Cameron, Trans. Ent. Soc. Lond.* 1878, p. 147.

*Hab.* Villa Nova.

3. *Dielocerus formosus*.

*Hylotoma formosa*, *Klug, Jahrb. d. Insect.* i. p. 248, n. 88 (1834).

*Hab.* Brazil.

4. *Dielocerus lobatus*.

*Hylotoma lobata*, *Erichs. Schomb. Reisen Brit. Guiana*, iii. p. 587 (1848).

*Hab.* Guiana.



## 30. PTENUS.

*Ptenos*, *Nort. Trans. Amer. Ent. Soc.* iv. p. 77 (1872).

*Ptilia*, sect. 2, *Nort. l. c.* ii. p. 367 (1869).

*Dielocera*, *Cameron, Trans. Ent. Soc. Lond.* 1878, p. 145.

1. *Ptenus serratus*.

(Plate IV. figs. 2 & 3.)

*Male*. Exp. al. 8 (?) lin., long. corp. 5 lin.

*Female*. Exp. al. 1 poll., long. corp. 6 lin.

*Male*. Head above, antennæ, and thorax black, shining; abdomen with a slight violet shade; cheeks shading into testaceous below. First two joints of antennæ testaceous, the first twice the length of the second and pear-shaped, the second short, and with a strong projection inwards, making it appear to be placed obliquely; third joint thick, furcate, and densely pilose. Face, prothorax, pectus, legs, and the middle of the abdomen beneath testaceous; prothorax densely clothed with short hair in front, giving it a serrated appearance at the edges. Wings clear hyaline, with piceous nervures; stigma black; fore wings with four submarginal cells on the right side and five on the left.

*Female*. Closely resembles that of *Dielocerus ellisii*. Head, thorax, and legs testaceous; first two joints of antennæ, and sometimes the base of the third, testaceous; third joint black, smooth, longer and more erected than in *D. ellisii*. Abdomen violet-black, except at the base beneath; hind tibiæ black, and the four last joints of the hind tarsi brown above. Fore wings hyaline, with four submarginal cells, the second receiving both recurrent nervures; a bulla on the nervule dividing the first and second cell. The violet-brown band is narrower and lighter, but more sharply defined than in *D. ellisii*, and the base and apex are similarly dusky. Hind wings as in *D. ellisii*.

Two males and two females of this interesting species stood among the series of *D. ellisii* in the British Museum. The extreme apex of the wings is damaged in all our specimens of *P. serratus*.

*Hab.* Brazil.

*a-d.* ♂ ♀. (Types of species.) Catagallo. Presented by F. Smith, Esq.

2. *Ptenus sulcicornis*.

*Dielocera sulcicornis*, *Cameron, Trans. Ent. Soc. Lond.* 1878, p. 145.

*Hab.* Prainha.

3. *Ptenus americanus*.

*Tenthredo americana*, *Linn. Syst. Nat.* i. p. 555, n. 6 (1758).

*Hylotoma brasiliانا*, *Klug, Berl. Mag.* vi. p. 308, n. 40 (1814).

*Hab.* Bahia.

4. *Ptenus violaceus*.

(Plate IV. fig. 5.)

Exp. al. 1 poll. 3 lin., long. corp.  $6\frac{1}{2}$  lin.

Head, antennæ, tibiæ, tarsi, and abdomen blue-black; thorax and femora rufo-testaceous. Wings smoky brown, glossed with violet, paler towards the tips of the fore wings; a black dot in the second submarginal cell, which exists also in the two following species.

*Hab.* Brazil.

a. ♀. (Type of species.)

Rio Janeiro.

A. Fry, Esq.

5. *Ptenus albicollis*.*Hylotoma albicollis*, *Klug, Jahrb. d. Insect.* i. p. 245, n. 76 (1834).*Hab.* Brazil ?6. *Ptenus diversipes*.

(Plate IV. fig. 4.)

Exp. al. 1 poll., long. corp. 5 lin.

Head, antennæ, scutellum, and hinder part of thorax steel-blue; abdomen steel-blue, shading into violet above; scapulæ, prothorax, pectus, front and sides of mesothorax, the two first pairs of femora, and base of tibiæ rufo-testaceous, as are also the hind femora beneath; the legs otherwise steel-blue. Wings smoky brown, slightly glossed with violet, their extremities clearer; nervures black or violaceous; third submarginal cell square.

*Hab.* Amazons.

a. ♀. (Type of species.)

Santarem.

H. W. Bates, Esq.

b. ♀.

Amazons.

7. *Ptenus consors*.

(Plate IV. fig. 6.)

Exp. al. 1 poll. 2 lin., long. corp. 6 lin.

Closely resembles *D. diversipes*, but the antennæ are longer and more pointed; the second joint is rufous, and the third is piceous beneath. The abdomen is greenish black rather than bluish black above, and the wings are somewhat more opaque and much more strongly glossed with violet. The third submarginal cell distinctly wider above than below.

*Hab.* East Brazil.

a. ♀. (Type of species.)

East Brazil.

Mrs. J. P. G. Smith.

8. *Ptenus atriceps*.

(Plate IV. fig. 8.)

Exp. al. 13 lin., long. corp. 5 lin.

Testaceous; head (mouth excepted), a spot in front of thorax, a small one on the scutellum, a large bifid spot on each side of the pectus, the four last segments of the abdomen, and the hind tibiæ black; the preceding segment of the abdomen is also blackish above. Wings deep yellowish hyaline, with yellow nervures; hind margins blackish, nervures darker.

Much resembles *Ptilia martini*, except in having four submarginal cells.

*Hab.* Brazil?*a. ♀.* (Type of species.)

Rio Janeiro?

9. *Ptenus bonariensis*.*Hylotoma bonariensis*, *Holmgren, Eugenes Resa, Ins.* p. 391 (1868).*Hab.* Buenos Ayres.10. *Ptenus* (?) *biramosus*.*Hylotoma biramosa*, *Klug, Jahrb. d. Insect.* i. p. 242, n. 64 (1834).*Ptilia biramosa*, *Nort. Trans. Amer. Ent. Soc.* i. p. 61 (1867).*Hab.* Mexico.*a. ♀.*

Vera Cruz.

M. Sallé.

*b. ♀.*

Orizaba.

M. Sallé.

*c. ♀.*

Mexico\*.

11. *Ptenus texanus*.*Ptilia texana*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 367 (1869).*Hab.* Texas.*a. ♀.*

Texas.

Purchased.

12. *Ptenus niger*.*Ptenos niger*, *Nort. Trans. Amer. Ent. Soc.* iv. p. 77 (1872).*Hab.* Texas.

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\* In this species there is no projection on the inside of the second joint of the antennæ, and the third subcubital cell is more than twice as broad above as below, owing to the outer nervule being strongly curved inwards towards the base.

13. *Ptenus nigropectus*.

*Ptenos nigropectus*, *Nort. Trans. Amer. Ent. Soc.* iv. p. 77 (1872).

*Hab.* Texas.

31. *PACHYLOTA*.

*Pachylota*, *Westw. Arc. Ent.* i. p. 24 (1841).

1. *Pachylota audouinii*.

*Pachylota audouinii*, *Westw. Arc. Ent.* i. p. 24, pl. vii. fig. 3 (1846).

*Hab.* West Africa ? or South America ?

*a.* ♀.

S. America ?

2. *Pachylota varicolor*.

*Pachylota varicolor*, *Nort. Trans. Amer. Ent. Soc.* iv. p. 79 (1872).

*Hab.* Mexico.

32. *ATHERMANTUS*.

Characters of *Hylotoma*, but with the tibiæ rather flattened and clothed with short bristles ; two end spurs, but none in the middle. Third joint of the antennæ rather short and thick, flattened towards the extremity. The antennæ will probably prove to be longer, ciliated, but not furcate, in the males.

In the type the first discoidal cell on the left side is divided by an additional nervule, thus making three recurrent nervures on one side ; the right side is normal.

1. *Athermantus imperialis*.

(Plate III. fig. 18.)

*Hylotoma imperialis*, *Smith, Ann. Nat. Hist.* (3) vi. p. 254 (1860).

*Exp. al.*  $1\frac{1}{2}$  poll., long. corp. 9 lin.

Brilliant purple, with changing violet tints above ; undersurface and legs dark blue, smooth, and shining ; third joint of the antennæ black ; wings deep yellowish hyaline ; nervures reddish yellow.

This magnificent species is probably the largest and handsomest yet described in this subfamily.

*Hab.* North China.

*a.* ♀.

N. China.

R. Fortune.

33. *HYLOTOMA*.

*Hylotoma*, *Latr. Hist. Nat.* iii. p. 302 (1802).

*Arge*, *Schrank, Fauna Boica*, ii. pt. 2, p. 226 (1802).

A. *Europo-Asiatic species (including Japan and North China).*1. *Hylotoma pullata*.

*Hylotoma pullata*, *Zadd. Beschr. Blattw.* p. 5, fig. 1 (1859); *Schrift. Königsb.* iv. p. 87, pl. iii. fig. 7 (1863); *Vollenh. Tijdschr. Ent.* xxii. p. 7, pl. ii. (1879).

*Hab.* Holland; Germany.

2. *Hylotoma violacea*.

*Tenthredo violacea*, *Fabr. Iter. Norw.* p. 64 (1779).

*Tenthredo cæruleipennis*, *Retz. Gen. Sp. Ins.* p. 72, n. 300 (1783).

*Tenthredo enodis*, *St.-Farg. Mon. Tenth.* p. 45, n. 127 (1823).

*Hylotoma enodis*, *Klug, Berl. Mag.* vi. p. 285, n. 1 (1814).

*Hylotoma vulgaris*, *Klug, Jahrb. d. Insect.* i. p. 230 (1834).

*Hab.* Europe.

|       |          |
|-------|----------|
| a. ♀. | Britain. |
| b. ♀. | Albania. |
| c. ♀. | Europe.  |

3. *Hylotoma enodis*.

*Tenthredo enodis*, *Linn. Syst. Nat.* i. p. 922, n. 11 (1767); *Panz. Faun. Germ.* Heft 49, pl. xiii. (1798).

*Tenthredo ustulata*, *De Geer, Mém. Ins.* ii. pt. 2, p. 1018, pl. xxxix. figs. 14-20 (1771).

*Tenthredo nigripes*, *Retz. Gen. Sp. Ins.* p. 71, n. 298 (1783).

*Hylotoma atrata et amethystina*, *Klug, Berl. Mag.* vi. p. 301, n. 30 (1814).

*Hylotoma anglica*, *Leach, Zool. Misc.* iii. p. 22, n. 2 (1817).

*Hylotoma angelica*, *St.-Farg. Mon. Tenth.* p. 45, n. 126 (1823).

*Hab.* Europe.

|                                       |          |                 |
|---------------------------------------|----------|-----------------|
| a. ♀. (Type of <i>H. anglica</i> .)   | Britain. | W. E. Leach.    |
| b. ♀. (As <i>H. anglica</i> .)        | Britain. | J. F. Stephens. |
| c. ♀. (As <i>H. anglica</i> .)        | Britain. |                 |
| d-i. ♂ ♀. (As <i>H. berberidis</i> .) | Britain. | J. F. Stephens. |
| k. ♀. (As <i>H. berberidis</i> .)     | Britain. |                 |
| l, m. ♀. (As <i>H. enodis</i> .)      | Britain. | J. F. Stephens. |
| n. ♂.                                 | Italy.   |                 |
| o-t. ♂ ♀.                             | Europe.  |                 |

4. *Hylotoma berberidis*.

*Arge berberidis*, *Schrank, Fauna Boica*, ii. pt. 2, p. 229, n. 1992 (1802).

*Hylotoma berberidis*, *Klug, Berl. Mag.* vi. p. 287, n. 3 (1814).

*Hab.* Central Europe.

|       |          |              |
|-------|----------|--------------|
| a. ♂. | Britain. | W. E. Leach. |
| b. ♀. | Germany. | J. F. Ruthe. |
| c. ♀. | Europe.  |              |

5. *Hylotoma ventriosa*.

*Hylotoma ventriosa*, *Zadd. Schrift. Königsb.* iv. p. 93 (1863).

*Hylotoma ventricosa*, *André, Spec. Hym.* i. p. 40 (1879).

*Hab.* St. Petersburg.

6. *Hylotoma cyanella*.

*Hylotoma cyanella*, *Klug, Jahrb. d. Insect.* i. p. 231, n. 24 (1834).

*Hab.* Central Europe.

*a. ♀.* Aix-la-Chapelle. Prof. Foerster.

7. *Hylotoma gracilicornis*.

*Hylotoma gracilicornis*, *Klug, Berl. Mag.* vi. p. 287, n. 4 (1814).

*Hylotoma pilicornis*, *Leach, Zool. Misc.* iii. p. 121, n. 1 (1817);

*Steph. Ill. Brit. Ent., Mand.* vii. p. 16 (1835).

*Hab.* Central Europe.

*a. ♀.* Coombe Wood. J. F. Stephens.  
*b-g. ♂ ♀.* Germany. J. F. Ruthe.

8. *Hylotoma fuscipes*.

*Hylotoma fuscipes*, *Fall. Vet.-Akad. Handl.* xxix. p. 43 (1808).

*Hylotoma violacea*, *Klug, Berl. Mag.* vi. p. 289, n. 6 (1814).

*Hylotoma atrocærulea*, *St.-Farg. Mon. Tenth.* p. 44, n. 122 (1823).

*Hab.* Europe.

*a-c. ♂ ♀.* (As *H. violacea* and *cærulea*.) Britain. J. F. Stephens.  
*d. ♀.* Germany. J. F. Ruthe.  
*e. ♀.* Europe.

9. *Hylotoma expansa*.

*Hylotoma expansa*, *Klug, Jahrb. d. Insect.* i. p. 232, n. 28 (1834);

*Zadd. Schrift. Königsb.* iv. p. 98 (1863).

*Hab.* Lapland; Northern Asia.

*a, b. ♂.* Amoor.

10. *Hylotoma ciliaris*.

*Tenthredo ciliaris*, *Lin. Syst. Nat.* i. p. 922, n. 12 (1767).

*Hylotoma cærulea*, *Klug, Berl. Mag.* vi. p. 289, n. 7 (1814).

*Hab.* Central Europe.

*a. ♀.* Britain. J. F. Stephens.  
*b. ♀.* Europe.

11. *Hylotoma corusca*.

*Hylotoma corusca*, *Zadd. Besch. Blattw.* p. 6 (1859).

*Hab.* Königsberg.

12. *Hylotoma ustulata*.

*Tenthredo ustulata*, *Linn. Syst. Nat.* i. p. 556, n. 10 (1758); *Faun. Suec.* p. 390 (1761).

*Tenthredo ochroptera*, *Fourcr. Ent. Par.* ii. p. 365, n. 5 (1785).

*Tenthredo pilicornis*, *Preysl., Mayer's Samml. phys. Aufs.* iii. p. 231 (1793).

*Hylotoma leachii*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 17 (1835).

*Hab.* Europe.

|   |              |                 |
|---|--------------|-----------------|
| <i>a-l.</i> ♂ ♀.                                | Britain.     | J. F. Stephens. |
| <i>m-g.</i> ♂ ♀. (Types of <i>H. leachii</i> .) | Britain.     | J. F. Stephens. |
| <i>r-t.</i> ♂ ♀.                                | Darent Wood. |                 |
| <i>u-aa.</i> ♂ ♀.                               | Germany.     | J. F. Ruthe.    |
| <i>bb.</i> ♂.                                   | Milan.       | F. Walker.      |
| <i>cc-kk.</i> ♂ ♀.                              | Europe.      |                 |

13. *Hylotoma metallica*.

*Hylotoma metallica*, *Klug, Jahrb. d. Insect.* i. p. 232, n. 30 (1834).

*Hab.* Königsberg.

14. *Hylotoma claripennis*.

*Hylotoma claripennis*, *Rudow, Stett. ent. Zeit.* xxxii. p. 382 (1871).

*Hab.* Harz.

15. *Hylotoma atrata*.

*Tenthredo atrata*, *Forst. Nov. Sp. Ins.* p. 80 (1771).

*Hylotoma albicuris*, *Brullé, Expl. Morée*, iii. 1, pt. 2, p. 395, n. 879 (1832).

*Tenthredo crocipennis*, *Christ, Naturg. Ins.* p. 450 (1791).

*Cryptus segmentarius*, *Panz. Ins. Faun. Germ.* Heft 88, pl. xvii. (1805).

*Hylotoma segmentaria*, *Klug, Berl. Mag.* vi. p. 291, n. 9 (1814).

*Arge ustulata*, *Schrank, Faun. Boic.* ii. p. 226 (1802).

♂. *Hylotoma klugii*, *Leach, Zool. Misc.* iii. p. 122, n. 4 (1817); *Steph. Ill. Brit. Ent., Mand.* vii. p. 17, pl. xxxv. fig. 4 (1835).

*Hylotoma discus*, *Costa, Ric. Ent. Parten.* pp. 17, 26, n. 19 (1858); *Faun. Nap., Ilot.* p. 4, pl. lxi. fig. 5 (1860).

*Hab.* Europe.

|                  |          |                 |
|------------------|----------|-----------------|
| <i>a-e.</i> ♂ ♀. | Britain. | J. F. Stephens. |
|------------------|----------|-----------------|

|   |              |               |
|---|--------------|---------------|
| <i>f.</i> ♂. (Type of <i>H. klugii</i> .) | Near London. | W. E. Leach.  |
| <i>g-i.</i> ♂ ♀.                          | Britain.     |               |
| <i>k-m.</i> ♂ ♀.                          | Germany.     | J. F. Ruthe.  |
| <i>n.</i> ♀.                              | Louvain.     | Lady Seymour. |
| <i>o-r.</i> ♂ ♀.                          | Europe.      |               |

### 16. *Hylotoma saliceti*.

*Hylotoma saliceti*, *Rudow, Stett. ent. Zeit.* xxxii. p. 383 (1871).

*Hab.* Harz.

### 17. *Hylotoma thoracica*.

*Hylotoma thoracica*, *Spin. Ins. Lig.* ii. pt. 2, p. 11, n. 19, pl. iv. fig. 14 (1808).

*Hab.* South Europe.

|              |        |
|--------------|--------|
| <i>a.</i> ♀. | Italy. |
| <i>b.</i> ♀. |        |

### 18. *Hylotoma pleuritica*.

*Hylotoma pleuritica*, *Klug, Jahrb. d. Insect.* i. p. 232, n. 26 (1834).

*Hab.* Hungary.

### 19. *Hylotoma pagana*.

*Tenthredo pagana*, *Panz. Faun. Germ.* Heft 49, pl. xvi. (1798).

*Tenthredo tricolor*, *Gmel. Syst. Nat.* i. pt. 5, p. 2657, n. 101 (1789).

*Tenthredo nigricornis*, *Panz. Schöff. Ins.* pp. 168, 237 (1804).

*Hylotoma flaviventris*, *Fall. Vet. Akad. Handl.* xxix. p. 202, n. 8 (1807).

*Tenthredo flavieornis*, *Ludw. Sachs. Ins.* p. 35 (1799).

*Hylotoma stephensii*, *Leach, Zool. Misc.* iii. p. 123, n. 6 (1817); *Curt. Brit. Ent.* ii. pl. lxxv. (1825).

*Hylotoma pagana*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 376.

*Hab.* Europe; Japan.

|  |           |                 |
|--|-----------|-----------------|
| <i>a-c.</i> ♂ ♀.                                   | Britain.  | J. F. Stephens. |
| <i>d-f.</i> ♂ ♀.                                   | Britain.  |                 |
| <i>g-l.</i> ♂ ♀. (Types of <i>H. stephensii</i> .) | Britain.  | J. F. Stephens. |
| <i>m.</i> ♀.                                       | Blois.    | Lady Seymour.   |
| <i>n-g.</i> ♂ ♀.                                   | Germany.  | J. F. Ruthe.    |
| <i>r.</i> ♀.                                       | Italy.    | W. E. Leach.    |
| <i>s.</i> ♀.                                       | Hakodadi. | Purchased.      |

### 20. *Hylotoma fuscipennis*.

*Hylotoma fuscipennis*, *Herr.-Schöff., Panzer's Ins.* Heft 129, pl. iii. (1834); *Zadd. Beschr. Blattw.* p. 6 (1859).

*Hab.* Germany.



21. *Hylotoma tergestina*.

*Hylotoma tergestina*, *Kriechb. Verh. zool.-bot. Gesellsch. in Wien*, xvi. *Sitzungsb.* p. 13 (1876).

*Hab.* Trieste.

22. *Hylotoma dimidiata*.

*Hylotoma dimidiata*, *Fall. Vet. Akad. Handl.* xxix. p. 42 (1808).

*Hylotoma mediata*, *Fall. Mon. Tenth.* p. 22, n. 6 (1829).

*Hylotoma fasciata*, *St.-Farg. Mon. Tenth.* p. 45, n. 117 (1823); *Faun. Franç., Hym.* p. 12, n. 2, pl. ii. fig. 1; *Zadd. Beschr. Blattw.* p. 7 (1859).

*Hab.* Northern and Central Europe.

23. *Hylotoma cyaneocrocea*.

*Tenthredo cyaneocrocea*, *Forst. Nov. Sp. Ins.* p. 78 (1771).

*Tenthredo cærulescens*, *Fabr. Syst. Ent.* p. 321, n. 18 (1775).

*Hylotoma cærulescens*, *Klug, Berl. Mag.* vi. p. 294, n. 13 (1814).

*Tenthredo bicolor*, *Schrank, Beitr. z. Nat.* p. 84 (1776).

*Hab.* Europe.

|                  |          |                 |
|------------------|----------|-----------------|
| <i>a-i.</i> ♂ ♀. | Britain. | J. F. Stephens. |
| <i>k-l.</i> ♂.   | Britain. |                 |
| <i>m.</i> ♂.     | Caen.    |                 |
| <i>n-s.</i> ♂ ♀. | Germany. | J. F. Ruthe.    |
| <i>t.</i> ♀.     | Europe.  |                 |

24. *Hylotoma melanochra*.

*Tenthredo melanochra*, *Gmel. Syst. Nat.* v. p. 2637, n. 100 (1789);

*Hylotoma femoralis*, *Klug, Berl. Mag.* vi. p. 295, n. 14 (1814).

*Hylotoma similis*, *Rudow, Stett. ent. Zeit.* xxxii. p. 384 (1871).

*Hylotoma dimidiata*, *St.-Farg. Mon. Tenth.* p. 43, n. 118 (1823); *Faun. Franç.* p. 12, n. 3, pl. ii. fig. 2.

*Hylotoma cærulescens*, var. *bicolor*, *Gimmerth, Arb. Nat. Ver. Riga*, i. p. 50 (1848).

*Hab.* Europe. \*

|                  |          |                 |
|------------------|----------|-----------------|
| <i>a-e.</i> ♂ ♀. | Britain. | J. F. Stephens. |
| <i>f-i.</i> ♂ ♀. | Britain. |                 |
| <i>k-p.</i> ♂ ♀. | Germany. | J. F. Ruthe.    |
| <i>q.</i> ♀.     | Europe.  |                 |

25. *Hylotoma ænescens*.

*Hylotoma ænescens*, *Först. Verhandl. Ver. Rheinl.* xi. p. 275 (1854).

*Hab.* South France.

26. *Hylotoma semicærulea*.

*Tenthredo semicærulea*, *Pall. MS., sec. Klug, Berl. Mag.* vi. p. 293, n. 12 (1814).

*Hylotoma dimidiata*, *Klug (nec Fall.)*, *l. c.* (1814).

*Hab.* Volga.

27. *Hylotoma confusa*.

*Hylotoma confusa*, *Dietr. Mitth. schweiz. ent. Ges.* ii. p. 353 (1868).

*Hab.* Zurich.

28. *Hylotoma rufescens*.

*Hylotoma rufescens*, *Zadd. Schrift. Königsb.* iv. p. 108 (1863).

*Hab.* Europe.

29. *Hylotoma frivaldskyi*.

*Hylotoma frivaldskyi*, *Tischb. Stett. ent. Zeit.* xiii. p. 107 (1852).

*Hab.* Hungary ; Turkey.

30. *Hylotoma pyrenaica*.

*Hylotoma pyrenaica*, *André, Spec. Hym.* i. p. 48 (1879).

*Hab.* Pyrenees.

31. *Hylotoma rosæ*.

*Tenthredo rosæ*, *Linn. Syst. Nat.* i. p. 557, n. 21 (1758); *Faun. Suec.* p. 393 (1761); *Panz. Faun. Germ.* Heft 49, pl. xv. (1798).

*Tenthredo ochropus*, *Gmel. Syst. Nat.* i. pt. 5, p. 2657, n. 102 (1789).

*Hylotoma rosarum*, *Klug, Berl. Mag.* vi. p. 292, n. 10 (1814).

*Tenthredo cupreæ*, *Preyssl., Mayer's Samml. phys. Aufs.* iii. p. 170 (1793).

*Arge rosincola*, *Schrank, Faun. Boica*, ii. pt. 2, p. 228 (1802).

*Hab.* Europe.

*a-f.* ♂ ♀.

*g.* ♀.

*h-k.* ♂ ♀.

*l.* ♀.

*m-p.* ♂ ♀.

*q, r.* ♂ ♀.

Britain.

Britain.

Britain.

France.

Germany.

Europe.

J. F. Stephens.

W. E. Shuckard.

J. F. Ruthe.

32. *Hylotoma aurata*.

*Hylotoma aurata*, *Zadd. Schrift. Königsb.* iv. p. 101 (1863).

*Hab.* Syria.

33. *Hylotoma sanguinicollis* \*.

*Hylotoma sanguinicollis*, *André, Spec. Hym. i. no. 7*, cover (1880).

*Hab.* Erivan.

34. *Hylotoma nigritarsis*.

*Hylotoma nigritarsis*, *Klug, Jahrb. d. Insect. i. p. 233, n. 31* (1834).

*Hab.* Syria.

35. *Hylotoma jonasi*.

(Plate IV. fig. 11.)

*Hylotoma nigritarsis*, *Smith, Trans. Ent. Soc. Lond. 1874, p. 374*.

Exp. al. 1 poll., long. corp. 6 lin.

Blue-black; palpi rufo-testaceous; back of head and thorax covered with a fine hoary pile; tibiae yellowish white; tips of hind tibiae blue-black; tarsi mostly blue-black, except more or less of the first joint. Wings yellowish hyaline; costa blue-black, with a violaceous-brown fascia running from it quite across the wing.

Allied to *H. violacea* and *expansa*.

*Hab.* Japan.

a. ♀. (Type of species.)

b. ♀.

Hiogo.

Japan.

G. Lewis, Esq.

Mr. Jonas.

36. *Hylotoma similis*.

(Plate IV. fig. 13.)

*Hylotoma similis*, *Vollenh. Tijdschr. Ent. iii. p. 128* (1860).

*Hylotoma imperator*, *Smith, Trans. Ent. Soc. Lond. 1874, p. 374*.

Exp. al. 7-11½ lin., long. corp. 4-5 lin.

Dark purplish blue; antennae long, pubescent beneath in the male, and black; legs darker purple than the body. Wings smoky, strongly glossed with purple.

Allied to *H. enodis*. The largest specimen is from Shanghai.

*Hab.* China; Japan.

a-e. ♂ ♀. (Types of *H. imperator*.)

f. ♂.

g, h. ♀.

i-l. ♂ ♀.

m. ♀.

n. ♂.

Hiogo.

North China.

Shanghai.

Hong Kong.

Macao.

Foo-Chow-Foo.

G. Lewis, Esq.

R. Fortune.

R. Fortune.

J. C. Bowring, Esq.

J. C. Bowring, Esq.

G. T. Lay, Esq.

\* As this species has only been described on the cover of a periodical publication, I copy the description here:—

“Tête, thorax et abdomen bleu foncé brillant avec quelques reflets vert métallique. Pronotum avec les lobes rouges. Antennes noires. Hanches et cuisses bleu sombre; tibiae noir grisâtre avec des reflets verts sur les postérieurs; tarsi noir grisâtre avec des reflets verts sur les postérieurs; tarsi noir grisâtre avec l'extrémité des articles un peu roussâtre. Ailes enfumées, noirâtres, surtout vers la base, sans tache; nervures noires, stigma roux à la base. Long. 7 mm.; env. 16 mm.”

37. *Hylotoma simillima*.

(Plate IV. fig. 18.)

*Hylotoma simillima*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 375.

Exp. al. 7-10 lin., long. corp. 4-5 lin.

Blue-black, shining, but much duller than in *similis*; antennæ black, shorter, ciliated in the male; legs dull blue-black. Wings fusco-hyaline, less strongly glossed with blue, and much clearer than in *similis*.

The form and size of the middle cells of the hind wings vary very much in different specimens, and even on different sides of the same specimen. One specimen from the Amoor was placed with *H. similis*; it appears to belong to *simillima*, but has the basal half of the hind tibiæ whitish. It is quite possible that this species may prove to be identical with *H. berberidis*; but I have not a sufficient series of the latter to compare.

*Hab.* Northern Asia.

|                              |          |                |
|------------------------------|----------|----------------|
| a. ♀.                        | Siberia. |                |
| b. ♀.                        | Amoor.   |                |
| c, d. ♀. (Types of species.) | Hiogo.   | G. Lewis, Esq. |

38. *Hylotoma rejecta*.

(Plate IV. fig. 16.)

*Hylotoma ephippiata*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 375.*Hylotoma humeralis*, *Vollenh. (nec Beauv.) Tijdschr. Ent.* iii. p. 129 (1860).

Exp. al. 6-7 lin., long. corp. 3 lin.

Shining blue-black; prothorax, pleura, and sides of the pectus rufo-testaceous, and the lateral lobes of the mesothorax wholly in the female, and sometimes partially in the male, of the same colour; antennæ black, rather long; front tibiæ obscurely ferruginous within. Wings fusco-hyaline, violaceous.

*Hab.* Japan.

|                               |        |                |
|-------------------------------|--------|----------------|
| a-c. ♂ ♀. (Types of species.) | Hiogo. | G. Lewis, Esq. |
|-------------------------------|--------|----------------|

39. *Hylotoma captiva*.

(Plate IV. fig. 14.)

*Hylotoma captiva*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 376.

Exp. al. 11 lin., long. corp. 5 lin.

Dark violet-black; thorax ferruginous; pleura narrowly so; scutellum ferruginous in front, and black behind; thorax also edged with black behind. Fore wings fusco-hyaline; hind wings hyaline.

*Hab.* Japan.

|                          |        |                |
|--------------------------|--------|----------------|
| a. ♀. (Type of species.) | Hiogo. | G. Lewis, Esq. |
|--------------------------|--------|----------------|

40. *Hylotoma flavicollis*.

(Plate IV. fig. 17.)

*Hylotoma flavicollis*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 460.

Exp. al. 10 lin., long. corp. 5 lin.

Deep violet-blue, thorax wholly rufo-testaceous; pleura narrowly of the same colour. Antennæ black, long, somewhat widened and flattened towards the extremity, and grooved beneath. Wings smoky hyaline, with a rich violet iridescence.

Closely allied to *H. captiva*.*Hab.* China.

a. ♀. (Type of species.)                      Hong Kong.                      J. C. Bowring, Esq.

41. *Hylotoma disparilis*.

(Plate V. figs. 7 &amp; 9.)

*Hylotoma humeralis* (p.), *Smith (nec Beauv.), Trans. Ent. Soc. Lond.* 1874, p. 374.

♀ Exp. al. 8 lin., long. corp. 4 lin.; ♂ exp. al. 6 lin., long. corp. 2 lin.

Head and lateral lobes of the mesothorax shining black; thorax otherwise rufo-testaceous; abdomen yellow; antennæ black, front legs æneous above, and testaceous on the inside; four hind femora yellow; tibiæ and tarsi black, the former yellowish on the outside. Wings dusky hyaline, violaceous towards the base.

♂ (?). Head and front of thorax brassy greenish black; antennæ black, densely ciliated on both sides, pectus steel-blue, shining; abdomen yellow, banded above with violet-brown in the middle; metathorax of the same colour above; legs yellow, four front femora violaceous; extremities of hind tibiæ and hind tarsi black. Wings smoky hyaline.

*Hab.* Japan.

a. ♀. (Type of species.)                      Hiogo.                      G. Lewis, Esq.  
b. ♂ ?                      Hiogo.                      G. Lewis, Esq.

42. *Hylotoma quadripunctata*.

(Plate V. fig. 12.)

*Hylotoma humeralis*, var. ♀, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 374.Exp. al. 8 lin., long. corp.  $3\frac{1}{2}$  lin.

Head and thorax steel-blue, with a slight greenish tinge, especially on the face; antennæ black; prothorax, an adjoining dot, and another behind the base of the fore wings on each side, pleura, sides of pectus, and scutellum rufo-testaceous; abdomen yellow, corru-

gated; pectus black beneath, divided by a rufo-testaceous line in the middle. Legs black; hind coxæ and inside of hind femora yellow, a paler line down the inside of hind tibiæ. Wings dusky hyaline, iridescent.

*Hab.* Japan.

*a.* ♀. (Type of species.) Hiogo. G. Lewis, Esq.

#### 43. *Hylotoma dubia*.

(Plate V. fig. 10.)

*Hylotoma similis*, *Smith (nec Vollenh.)*, *Trans. Ent. Soc. Lond.* 1874, p. 375.

Exp. al. 9 lin., long. corp.  $4\frac{1}{2}$  lin.

Blue-black, pleura and sides of pectus rufo-testaceous; antennæ black; abdomen yellow, shining. Wings hyaline, with a violaceous iridescence; nervures black.

Mr. Smith afterwards placed this species as a variety of *H. pagana*.

*Hab.* Japan.

*a.* ♀. (Type of species.) Japan. R. Fortune.

#### 44. *Hylotoma nigrinodosa*.

(Plate V. fig. 15.)

*Hylotoma nigrinodosa*, *Motsch. Bull. Mosc.* 1859, ii. p. 499.

*Hylotoma flava*, *Vollenh. Tijdschr. Ent.* iii. p. 129 (1860).

*Hylotoma trinotata*, *Smith*, *Trans. Ent. Soc. Lond.* 1874, p. 376.

Exp. al. 9 lin., long. corp. 4 lin.

Thorax rufo-testaceous; head, frontal and lateral lobes of the mesothorax, and the greater part of the legs brassy black; antennæ dull black; abdomen smooth, shining yellow; hind coxæ, trochanters, femora, and the tibiæ above rufo-testaceous. Wings fusco-hyaline, darker at the base; nervures piceous.

*Hab.* Japan, Amoor.

*a.* ♀. (Type of *H. trinotata*.) Hiogo. G. Lewis, Esq.

#### B. North- and Central-American species.

##### 45. *Hylotoma macleayi* \*.

*Hylotoma macleayi*, *Leach, Zool. Misc.* iii. p. 122, n. 3 (1817); ? *Nort. Trans. Amer. Ent. Soc.* i. p. 64 (1867).

*Hab.* North America.

*a.* ♀. St. Martin's Falls, Albany Dr. Barnston.  
River, Hudson's Bay.  
*b.* ♂. N. America.

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\* The type of this species does not appear to be in existence.

46. *Hylotoma cærulea*.

*Hylotoma ceruleus*, *Nort. Proc. Ent. Soc. Phil.* iii. p. 5 (1864).

*Hylotoma cæruleus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 65, n. 2 (1867).

*Hab.* Pennsylvania.

47. *Hylotoma eximia*.

(Plate V. fig. 11.)

Exp. al. 10 lin., long. corp. 5 lin.

Blue-black; tibiæ and first two joints of the tarsi white, black at the extremity; the spurs and the remaining joints of the tarsi black. Wings hyaline, clouded at the extremities, darkest in the radial cell and the second and third submarginal cells. Antennæ rather long, clypeus reddish.

Allied to *expansa* and *fasciata*; but easily distinguished from these and most other species of the *ustulata*-group by its clouded wings and the colour of the legs. From *macleayi* and *cærulea* it is easily distinguished by its larger size and long antennæ.

*Hab.* Mexico.

a. ♀. (Type of species.)

Orizaba.

M. Sallé.

48. *Hylotoma virescens*.

*Hylotoma virescens*, *Klug, Berl. Mag.* vi. p. 296, n. 15 (1814).

*Hab.* Georgia.

49. *Hylotoma analis*.

(Plate V. fig. 13.)

*Hylotoma analis*, *Leach, Zool. Misc.* iii. p. 123, n. 5 (1817).

Exp. al. 8 lin., long. corp. 4 lin.

Head and thorax blue-black above; antennæ, legs, and pectus deep black, the latter very shining; abdomen rufo-testaceous, the last four segments above and the last three below black. Wings brownish hyaline, strongly suffused with violet; antennæ ciliated.

*Hab.* Georgia.

a. ♂. (Type of species.)

Georgia.

Probably from Abbot's collection.

50. *Hylotoma clavicornis*.

(Plate V. fig. 14.)

*Tenthredo clavicornis*, *Fabr. Spec. Ins.* ii. p. 408, n. 13 (1781).

*Hylotoma clavicornis*, *Norton, Trans. Amer. Ent. Soc.* i. p. 66 (1867).

Exp. al. 7 lin., long. corp. 3½ lin.

Head, thorax, and pectus black, the last with a slight bluish shade;

antennæ black, slightly piceous beneath ; abdomen luteous, with only the borders of the sheaths of the saws below (the extremities of which are visible above) black ; the four front femora blue-black ; front tibiæ and tarsi whitish ; four hind tarsi blackish, hind femora and four hind tibiæ luteous in the middle, and blue-black at the extremities. Wings hyaline, with yellowish nervures towards the base ; stigma large, piceous, with an oblique shade beneath.

Described from the type in the Banksian collection, which is a female in very good preservation.

There are five specimens from Hudson's Bay in the British Museum, which I am inclined to regard for the present as varieties of this species. The colour of the antennæ, tibiæ, and tarsi varies from black or brown to yellowish, and in all at least the last two segments of the abdomen are black. The only male closely resembles the type of *H. analis* ; but the body is rather longer, and the wings are yellowish hyaline, with a shade below the stigma, which is nearly obliterated in the type by the dark colour of the wings.

*Hab.* North America.

|                                 |                     |                      |
|---------------------------------|---------------------|----------------------|
| <i>a.</i> ♀. (Type of species.) | North America.      | Banksian Collection. |
| <i>b-f.</i> ♂ ♀.                | St. Martin's Falls. | Dr. Barnston.        |

### 51. *Hylotoma borealis*.

(Plate V. fig. 16.)

*Exp.* al. 9 lin., long. corp. 4 lin.

Head black, face reddish ; antennæ black to one third of the length of the last joint, and yellowish beyond. Body wholly rufo-testaceous ; basal half of the front femora black, and the four hinder trochanters and middle of the femora darker. Wings hyaline, dusky yellowish towards the base ; stigma brown ; the shade beneath slightly marked ; nervures piceous.

Perhaps a variety of *H. clavicornis*.

*Hab.* Hudson's Bay.

|                                 |                     |               |
|---------------------------------|---------------------|---------------|
| <i>a.</i> ♀. (Type of species.) | St. Martin's Falls. | Dr. Barnston. |
|---------------------------------|---------------------|---------------|

### 52. *Hylotoma cyra*.

(Plate V. fig. 18.)

*Exp.* al. 10-11 lin., long. corp. 5 lin.

Head, thorax, pectus, and femora shining black ; antennæ fuscous, paler towards the extremity and beneath ; abdomen yellow, the outer edges of the sheaths of the saws, and sometimes the whole sheaths, black. Wings yellowish hyaline, the costal cell and all the nervures on the costa and inner margins, and at the base of the fore wings, yellow, the rest piceous. Stigma brown, with a sharply defined shade, not extending beyond the second submarginal cell, in which a dis-



tinged dark spot is placed. There is also a dark cloud on the upper part of the outer apical cell of the fore wings. Tibiæ and tarsi pale yellow, the latter darker towards the extremity.

Closely allied to *H. clavicornis* and *virescens*. One specimen bears the MS. name of *xanthogaster*, which is preoccupied in the genus. There is no locality label; but the specimens are probably from Georgia.

*Hab.* Georgia?

*a-c.* ♀.

Georgia?

### 53. *Hylotoma abdominalis*.

(Plate V. fig. 17.)

*Hylotoma abdominalis*, *Leach*, *Zool. Misc.* iii. p. 123, n. 7 (1817);  
*Nort. Trans. Amer. Ent. Soc.* i. p. 66 (1867).

*Exp. al.* 10–12 lin., long. corp.  $5\frac{1}{2}$  lin.

Blue-black, antennæ and legs darker; abdomen yellow, shining; wings violaceo-hyaline.

One specimen has the nervule between the second and third submarginal cells nearly obsolete on the right side.

*Hab.* Southern United States.

*a-c.* ♀. (Types of species.)

Georgia.

Probably from Abbot's collection.

*d.* ♀.

Texas.

E. T. Cresson, Esq.

### 54. *Hylotoma humeralis*.

*Hylotoma humeralis*, *Beauv. Ins. Afr. Amér.* ii. p. 99, pl. ix. fig. 6 (1797); *Nort. Trans. Amer. Ent. Soc.* i. p. 68 (1867).

*Var.* *Hylotoma sanguinea*, *Klug, Berl. Mag.* vi. p. 299, n. 22 (1814).

*Hylotoma scutellata*, *St.-Farg. Mon. Tenth.* p. 47, n. 135 (1823);  
*Say, Bost. Journ.* i. p. 211 (1837).

*Hab.* United States.

*a.* Georgia\*.

Probably from Abbot's collection.

### 55. *Hylotoma pectoralis*.

*Hylotoma pectoralis*, *Leach*, *Zool. Misc.* iii. p. 124, n. 10 (1817).

*Hab.* North America?

### 56. *Hylotoma dulciaria*.

*Hylotoma dulciaria*, *Say, Long's Second Exped.* ii. p. 314 (1824);  
*Nort. Trans. Amer. Ent. Soc.* i. p. 70 (1867).

*Hab.* United States.

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\* The typical form of *H. humeralis*, which has the scutellum concolorous with the thorax, is not represented in the British-Museum collection.

57. *Hylotoma miniata*.

*Hylotoma miniata*, *Klug, Berl. Mag.* vi. p. 298, n. 20 (1814).

*Hab.* North America.

58. *Hylotoma rubra*.

*Hylotoma rubra*, *Klug, Berl. Mag.* vi. p. 299, n. 21 (1814).

*Hab.* New York.

59. *Hylotoma coccinea*.

(Plate V. fig. 19.)

*Hylotoma coccinea*, *Fabr. Syst. Piez.* p. 24, n. 10 (1804).

*Tenthredo rubiginosa*, *Beauv. Ins. Afr. Amér.* p. 98, pl. ix. fig. 5 (1805).

*Hylotoma rubiginosa*, *Nort. Trans. Amer. Ent. Soc.* i. p. 72 (1867).

*Hylotoma erythrosoma*, *Leach, Zool. Misc.* iii. p. 124, n. 8 (1817).

Ferruginous red ; antennæ, eyes, legs, and tegulæ blackish ; hind coxæ testaceous. Wings dusky hyaline, strongly glossed with violet ; inner margin of the hind wings clear hyaline. A second specimen (also a female) has the middle and side lobes of the thorax, and the scutellum as well as the prothorax and pectus on one side, almost wholly black, while the prothorax and scutellum on the other are of the ground-colour. The fore wings are clearer towards the hinder angle than in the type of *erythrosoma*, Leach, which I have just described. The second specimen only differs from Fabricius's description of *coccinea* by the black colour not being confined to the middle of the thorax.

*Hab.* North America.

- |   |          |                                   |
|---|----------|-----------------------------------|
| a. ♀. (Type of <i>H. erythrosoma</i> .) | Georgia. | Probably from Abbot's collection. |
| b. ♀.                                   | Georgia. |                                   |

60. *Hylotoma maculata*.

*Cryptus maculatus*, *Jurine, Hym.* p. 51, pl. vi. gen. 2 (1807).

*Hab.* North America ?

61. *Hylotoma mellina*.

*Hylotoma mellina*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 3 (1880).

*Hab.* Nevada.

62. *Hylotoma sphinx*.

(Plate V. fig. 20.)

Exp. al. 9 lin., long. corp. 4 lin.

Dark red ; head black, mandibles reddish at the extremity ; an-

tennæ black, with long pectinations on the inside; tegulæ black, adjoining a large oval spot, covering the side lobes of the thorax in front; legs black, hind coxæ large, reddish in the middle; a large black spot covering the middle of the pectus in front of the middle pair of legs; metathorax blackish; abdomen very short and broad, strongly keeled behind the middle. Wings violaceo-hyaline, clear towards the extremity; hind wings with two middle cells, the lower one forming an isosceles triangle.

This insect may be the male of *H. dulciaria* or *H. pectoralis*.

*Hab.* North America?

a. ♂. (Type of species.)      North America?      Entomological Club.

### 63. *Hylotoma scapularis*.

*Hylotoma scapularis*, *Klug, Berl. Mag.* vi. p. 298, n. 19 (18  
*Nort. Trans. Amer. Ent. Soc.* i. p. 67 (1867).

*Hab.* Baltimore\*.

### 64. *Hylotoma calcanea*.

*Hylotoma calcanea*, *Say, Bost. Journ.* i. p. 211 (1837).

*Hylotoma scapularis*, *Nort. Trans. Amer. Ent. Soc.* i. p. 67 (1867).

*Hab.* North America.

a. ♀.      Massachusetts.  
b. ♀.

### 65. *Hylotoma xanthothorax*.

(Plate VI. fig. 1.)

*Hylotoma xanthothorax*, *Leach, Zool. Misc.* iii. p. 124, n. 9 (1817).

Exp. al. 8 lin., long. corp. 4 lin.

Blue-black; thorax, scutellum, pleura, and sides of pectus luteous. Wings smoky hyaline, the second recurrent nervure received at the division between the second and third submarginal cells, in the former of which stands a black dot.

But for the neururation, which resembles that of the genus *Scobina*, I should have considered this insect to be identical with *H. calcanea*. The black pectus and legs render it impossible to confound it with *H. americana*.

*Hab.* North America?

a. ♀. (Type of species.)      North America?      W. E. Leach.

### 66. *Hylotoma dorsalis*.

*Hylotoma dorsalis*, *Klug, Jahrb. d. Insect.* i. p. 236, n. 44 (1834);  
*Nort. Trans. Amer. Ent. Soc.* iv. p. 78 (1872).

*Hab.* Mexico.

a. ♀.      Oajaca.      M. Sallé.

\* Norton considers this insect to be a variety of *calcanea*.

67. *Hylotoma procera*.

*Hylotoma procera*, *Klug, Jahrb. d. Insect. i. p. 235, n. 38 (1834).*

*Hab.* Mexico.

68. *Hylotoma pæcila*.

*Hylotoma pæcila*, *Klug, Jahrb. d. Insect. i. p. 239, n. 54 (1834);*  
*Nort. Trans. Amer. Ent. Soc. i. p. 68 (1867).*

*Hab.* Mexico.

*a, b.* ♂ ♀.

Orizaba.

M. Sallé.

*d-g.* ♂ ♀.

Mexico.

M. Sallé.

*h.* ♂.

Mexico.

69. *Hylotoma fascialis*.

*Hylotoma fascialis*, *Nort. Trans. Amer. Ent. Soc. i. p. 69 (1867).*

*Hab.* Mexico\*.

70. *Hylotoma semifusca*.

*Hylotoma semifuscus*, *Nort. Trans. Amer. Ent. Soc. i. p. 69 (1867).*

*Hab.* Mexico.

71. *Hylotoma lepida*.

*Hylotoma lepida*, *Klug, Jahrb. d. Insect. i. p. 239, n. 53 (1834).*

*Hab.* Mexico.

*a.* ♂.

Orizaba.

M. Sallé.

72. *Hylotoma consobrina*.

*Hylotoma consobrina*, *Nort. Trans. Amer. Ent. Soc. iv. p. 78*  
*(1872).*

*Hab.* Mexico.

73. *Hylotoma vittata*.

(Plate VI. fig. 2.)

Exp. al. 1 poll., long. corp. 5 lin.

Head testaceous; eyes, antennæ, jaws, and a depression on each side running between the antennæ and jaws black. Thorax blue-black; prothorax, side lobes of the mesothorax, a spot between, and scutellum testaceous. Abdomen blue-black above and below; the first four segments luteous; pectus blue-black, with a large luteous spot on each side; below, the scutellum and pleura narrowly luteous. Legs testaceous, coxæ and femora (except the basal half of the hind femora) blue-black; tips of all the tibiæ of the same colour. Wings hyaline; fore wings broadly yellowish along the costa to beyond the stigma; this colour is bounded by a dusky streak, extending over

\* I cannot separate this species from *H. pæcila* by the description.

both sides of the radial nervure, filling the lower half of the radial cell, and the upper portions of the third and fourth submarginal cells, and almost the whole of the second, at which point it becomes suddenly narrower, curving through the lower portion of the first to the costa; a black dot, as in most *Hylotomæ*, in the second cell.

A large and handsome species, not closely related to any other.

*Hab.* Mexico.

*a.* ♀. (Type of species.)

Mexico.

M. Sallé.

*C. Indian species (including South China).*

74. *Hylotoma janthina* \*.

*Hylotoma janthina*, *Klug, Jahrb. d. Insect. i.* p. 232, n. 25 (1834);  
*Brullé, Hym. iv.* p. 668, pl. xlvii. fig. 7 (1846).

*Hab.* Indian Region.

|              |           |                 |
|--------------|-----------|-----------------|
| <i>a.</i> ♀. | Bootan.   | Dr. Pemberton.  |
| <i>b.</i> ♀. | Sikkim?   | Dr. Hooker.     |
| <i>c.</i> ♀. | N. India. | Capt. Reid.     |
| <i>d.</i> ♀. | Nepaul.   | Gen. Hardwicke. |
| <i>e.</i> ♀. | Java.     | East-India Co.  |
| <i>f.</i> ♂. | Sumatra.  | Sir S. Raffles. |

75. *Hylotoma albocincta*.

(Plate IV. fig. 12.)

*Hylotoma albocincta*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 459.

*Exp.* al. 11 to 12 lin., long. corp. 6 lin.

Steel-blue; abdomen with the third segment wholly pale yellow; clypeus roundly emarginate, tips of mandibles red. Antennæ rather long. Front coxæ and the greater part of the legs very pale yellowish or whitish; the four front femora, the four hind coxæ, and the extremities of the hind femora are steel-blue. Fore wings yellowish hyaline, costa and stigma yellowish; the radial cell and the submarginal cells, except the first, nearly covered with a brown shade, glossed with violet.

*Hab.* India.

|                |         |                 |
|----------------|---------|-----------------|
| <i>a.</i> ♀. } | Nepaul. | Gen. Hardwicke. |
| <i>b.</i> ♀. } | India.  | Capt. Boyes.    |

\* Some writers assert the presence, and others the absence, of middle spurs on the tibiæ. I have not been able to ascertain their existence in any of our specimens; but as they are probably slender and easily broken off, and as all the nearest allied species possess them, I cannot venture to remove this species from *Hylotoma* at present.

76. *Hylotoma excisa*.

*Hylotoma excisa*, *Cameron, Trans. Ent. Soc. Lond.* 1877, p. 90.  
*Hab.* Penang.

77. *Hylotoma microcephala*.

*Hylotoma microcephala*, *Vollenh. Tijdschr. Ent.* iii. p. 130 (1860).  
*Hab.* Java.

78. *Hylotoma interstitialis*.

*Hylotoma interstitialis*, *Cameron, Trans. Ent. Soc. Lond.* 1877, p. 91.  
*Hab.* Darjeeling.

79. *Hylotoma fumipennis*.

*Hylotoma fumipennis*, *Smith, 2nd Yarkand Mission, Hym.* p. 18 (1878).  
*Hab.* Punjab.

80. *Hylotoma sinensis*.

(Plate V. fig. 2.)

*Hylotoma microcephala*, *Cameron (nec Vollenh.), Trans. Ent. Soc. Lond.* 1876, p. 460.

Exp. al. 7-11 lin., long. corp. 3-5 lin.

Head small, blue-black; antennæ testaceous, brown towards the extremity. Body yellow, thorax darker, base and tip of abdomen and middle of pectus more or less distinctly marked with violet-brown; scutellum sometimes of the same colour; legs testaceous, more or less varied with violet-brown. Wings light fusco-hyaline, with a violet iridescence; hind wings clearer.

I am unable to detect middle spurs in this species.

*Hab.* China.

a-c. ♂ ♀. (Types of species.)  
 d. ♀.

Amoy.  
 Foo-Chow-Foo.

Purchased.  
 G. T. Lay, Esq.

81. *Hylotoma xanthogaster*.

(Plate V. fig. 1.)

*Hylotoma xanthogaster*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 459.

Exp. al. 8-9 lin., long. corp. 4 lin.

Head, thorax, and legs steel-blue; metathorax and the middle of the abdomen above pale violaceous; sides, extremity and under-surface of abdomen uniform yellow. Wings smoky hyaline; third submarginal nervure curved outwards above the middle. In one

specimen the second submarginal nervule is absent on one side, thus throwing the second and third submarginal cells into one.

*Hab.* North India.

|                                 |              |                 |
|---------------------------------|--------------|-----------------|
| <i>a.</i> ♀. (Type of species.) | Nepaul.      | Gen. Hardwicke. |
| <i>b.</i> ♀.                    | North India. | Capt. Reid.     |

## 82. *Hylotoma victorina*.

(Plate V. figs. 5 & 8.)

*Exp.* al. 7 lin., long. corp. 3 lin.

Head, thorax, pectus, and legs smooth, shining steel-blue; antennæ black, rather long and thick, clothed with very short pubescence. Abdomen more or less violet-brown above; sides, extremity and undersurface yellow. Wings fusco-hyaline with a violet iridescence. In the female, the abdomen is yellow, with only the first two, three, or four segments violaceous on the back.

The most strongly-marked male, in which the abdomen is wholly violet-brown above, except at the sides and extremity, is from Hong Kong. This insect is smaller and darker than *H. xanthogaster*, but may not be truly distinct.

*Hab.* China.

|                     |                     |               |                      |
|---------------------|---------------------|---------------|----------------------|
| <i>a-d.</i> ♂ ♀. }  | (Types of species.) | Foo-Chow-Foo. | G. T. Lay, Esq.      |
| <i>e, f.</i> ♂ ♀. } |                     | Hong Kong.    | J. C. Bowering, Esq. |

## 83. *Hylotoma lutea*.

(Plate V. figs. 4 & 6.)

*Hylotoma lutea*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 459.

*Exp.* al. 7-8 lin., long. corp.  $3\frac{1}{2}$ -4 lin.

Dark luteous; abdomen paler, and marked with a row of purplish-black spots divided in the middle (absent in the male). Head, antennæ, and legs blue-black, four hind femora more or less luteous at the base; a blackish-purple spot on each side of the mesothorax, between the wings; metathorax blackish purple above. Wings dusky hyaline, with piceous nervures; costa and stigma black.

*Hab.* North India.

|                                       |              |             |
|---------------------------------------|--------------|-------------|
| <i>a, b.</i> ♂ ♀. (Types of species.) | North India. | Capt. Reid. |
|---------------------------------------|--------------|-------------|

## 84. *Hylotoma bipunctata*.

(Plate V. fig. 3.)

*Hylotoma bipunctata*, *Cameron, Trans. Ent. Soc. Lond.* 1877, p. 90.

*Exp.* al. 4 lin., long. corp. 9 lin.

Closely allied to *H. lutea*, from which it chiefly differs by the four hind femora being much more distinctly luteous, and the dark

transverse bars on the abdomen not being divided in the middle. I cannot detect much difference in the colour of the antennæ in the two species. One of the specimens of *bipunctata* is labelled "*excisa*, type," which is clearly an error.

*Hab.* India.

*a, b.* ♀. (Types of species.) India.

### 85. *Hylotoma simlaensis*.

*Hylotoma simlaensis*, *Cameron, Trans. Ent. Soc. Lond.* 1878, p. 91.

*Hab.* Simla.

*D. African species.*

### 86. *Hylotoma sugillata*.

*Hylotoma sugillata*, *Klug, Jahrb. d. Insect. i.* p. 232, n. 27 (1834).

*Hab.* South Africa.

|              |                        |                |
|--------------|------------------------|----------------|
| <i>a.</i> ♀. | S. Africa.             | Dr. Smith.     |
| <i>b.</i> ♀. | Interior of S. Africa. | Earl of Derby. |

### 87. *Hylotoma andromeda*.

(Plate IV. fig. 7.)

Exp. al. 9 lin., long. corp. 5 lin.

Head and antennæ blue-black; prothorax and sides of mesothorax luteous; the whole centre and hinder portion of the thorax blue-black. Abdomen shining violet-brown in the middle above; the last three segments blue-black, both above and below; undersurface, and sides otherwise luteous. Pectus blue-black in the middle and behind; sides luteous. Legs blue-black. Fore wings smoky hyaline, with a violet iridescence; hind wings clear hyaline, with the extremities clouded.

*Hab.* Natal.

|                                 |        |             |
|---------------------------------|--------|-------------|
| <i>a.</i> ♀. (Type of species.) | Natal. | Dr. Krauss. |
|---------------------------------|--------|-------------|

### 88. *Hylotoma dirce*.

(Plate IV. fig. 15.)

Size of *H. andromeda*, to which it is closely allied.

Head and antennæ black; thorax, including the scutellum and postscutellum, pectus, legs, and last three segments of the abdomen brassy black; prothorax, tegulæ, and six basal segments of the abdomen beneath and at the sides luteous; above, they are banded with violet-brown in the middle, the incisions narrowly luteous. Wings dusky hyaline, but clearer than in *andromeda*, with a dusky shade beneath the stigma.

*Hab.* South Africa.

|                                 |             |                |
|---------------------------------|-------------|----------------|
| <i>a.</i> ♀. (Type of species.) | Lake Ngami. | Mr. Andersson. |
|---------------------------------|-------------|----------------|



89. *Hylotoma speciosa*.

*Hylotoma speciosa*, *Klug, Jahrb. d. Insect.* i. p. 233, n. 32 (1834).

*Hab.* Cape.

90. *Hylotoma urania*.

(Plate IV. fig. 10.)

Exp. al. 10 lin., long. corp. 5 lin.

Shining steel-blue, glossed with purple and violet; segments 3-5 of the abdomen luteous, with a violet-blue spot on the middle of each above. Undersurface steel-blue; segments 3-5 of the abdomen, and the tibiae and tarsi, luteous, extremities of the latter dusky. Wings hyaline, with yellow nervures towards the base, and brown ones towards the extremity; tips of fore wings darker, a slightly oblique brown shade strongly glossed with violet extending across the fore wings from the stigma.

*Hab.* South Africa.

a, b. ♀. (Types of species.)

Natal.

Herr Guenzius.

91. *Hylotoma bicolorata*.

*Hylotoma bicolorata*, *Khig, Berl. Mag.* vi. p. 296, n. 16, pl. vii. fig. 4 (1814).

*Hab.* Sierra Leone.

92. *Hylotoma gambiæ*.

(Plate IV. fig. 9.)

Exp. al. 7 lin., long. corp.  $3\frac{1}{2}$  lin.

Head black; antennæ very long and thick, setose; the first joint is black, the second reddish brown, and the third piceous, with a large oval whitish spot at the extremity. Thorax black in the middle; prothorax, sides of mesothorax, and the whole remainder of the insect reddish luteous, except the joints of the four hinder tarsi, which are ringed with black, and the extremities of the hind tibiae, which are also black. Wings damaged, but probably yellowish hyaline.

Possibly the male of *H. bicolorata*, *Klug*.

*Hab.* Gambia.

a. ♂. (Type of species.)

Gambia.

93. *Hylotoma xanthomela*.

*Hylotoma xanthomela*, *Klug, Jahrb. d. Insect.* i. p. 234, n. 36 (1834).

*Hab.* Guinea.

94. *Hylotoma annulipes*.

*Hylotoma annulipes*, *Klug, Jahrb. d. Insect. i.* p. 234, n. 34 (1834).

*Hab.* South Africa.

*a, b.* ♂ ♀.

Natal.

Herr Guenzius.

95. *Hylotoma massajæ*.

*Hylotoma massajæ*, *Gribodo, Ann. Mus. Genov. xiv.* p. 347 (1879).

*Hab.* Shoa.\*

96. *Hylotoma stictica*.

*Hylotoma stictica*, *Klug, Jahrb. d. Insect. i.* p. 232, n. 29 (1834).

*Hab.* South Africa.

*a.* ♂.

Natal.

Herr Guenzius.

97. *Hylotoma tæniata*.

*Hylotoma tæniata*, *Klug, Jahrb. d. Insect. i.* p. 233, n. 33 (1834).

*Hab.* South Africa.

*a.* ♂.

S. Africa.

R. Trimen, Esq.

98. *Hylotoma capensis*.

*Hylotoma capensis*, *Klug, Berl. Mag. vi.* p. 297, n. 18, pl. vii. fig. 6 (1814).

*Hab.* Cape.

99. *Hylotoma nigripes*.

*Hylotoma nigripes*, *Klug, Jahrb. d. Insect. i.* p. 234, n. 35 (1834).

*Hab.* Cape.

100. *Hylotoma livida*.

*Hylotoma livida*, *Klug, Jahrb. d. Insect. i.* p. 235, n. 37 (1834).

*Hab.* Guinea.

*E. Tropical-American species.*

101. *Hylotoma rubricollis*.

*Hylotoma rubricollis*, *Klug, Jahrb. d. Insect. i.* p. 236, n. 40 (1834).

*Hab.* Brazil.

102. *Hylotoma stigmaticollis*.

*Hylotoma stigmaticollis*, *Klug, Jahrb. d. Insect. i.* p. 236, n. 41 (1834).

*Hab.* Brazil.

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\* Appears to be closely allied to, if not identical with, *H. annulipes*.

103. *Hylotoma infuscata*.

*Hylotoma infuscata*, *Klug, Jahrb. d. Insect. i. p. 236, n. 42 (1834).*

*Hab.* Brazil.

104. *Hylotoma collaris*.

*Hylotoma collaris*, *Klug, Jahrb. d. Insect. i. p. 236, n. 43 (1834).*

*Hab.* Brazil.

105. *Hylotoma geniculata*.

*Hylotoma geniculata*, *Klug, Jahrb. d. Insect. i. p. 237, n. 45 (1834).*

*Hab.* Brazil.

*a. ♂.*

Brazil.

106. *Hylotoma melanopyga*.

*Hylotoma melanopyga*, *Klug, Jahrb. d. Insect. i. p. 237, n. 46 (1834).*

*Hab.* Brazil.

107. *Hylotoma notata*.

*Hylotoma notata*, *Klug, Jahrb. d. Insect. i. p. 237, n. 47 (1834).*

*Hab.* Brazil.

108. *Hylotoma basalis*.

*Hylotoma basalis*, *Klug, Jahrb. d. Insect. i. p. 237, n. 48 (1834).*

*Hab.* Brazil.

*a, b. ♀.*

Santarem.

H. W. Bates, Esq.

109. *Hylotoma lurida*.

*Hylotoma lurida*, *Klug, Jahrb. d. Insect. i. p. 238, n. 49 (1834).*

*Hab.* Surinam.

110. *Hylotoma helvola*.

*Hylotoma helvola*, *Klug, Jahrb. d. Insect. i. p. 238, no. 50 (1834).*

*Hab.* Brazil.

111. *Hylotoma testacea*.

*Hylotoma testacea*, *Klug, Jahrb. d. Insect. i. p. 238, n. 51 (1834).*

*Hab.* Brazil.

112. *Hylotoma maculipes*.

*Hylotoma maculipes*, *Klug, Jahrb. d. Insect. i. p. 238, n. 52 (1834).*

*Hab.* Brazil.

113. *Hylotoma terminalis*.

*Hylotoma terminalis*, *Klug, Berl. Mag.* vi. p. 297, n. 17, pl. vii. fig. 5 (1814).

*Hab.* Para.

114. *Hylotoma dryope*.

(Plate VI. fig. 3.)

Exp. al. 7 lin., long. corp. 4 lin.

Pale shining yellow, the last three segments blackish above, and the ends of the saws projecting like a pair of pincers. Head above the antennæ black; below yellow; antennæ long and slender, yellowish at the base and black at the extremity; tips of front tarsi, the intermediate tarsi, the hind tibiæ (and doubtless the tarsi also) black. Wings hyaline, with piceous nervures, dusky towards the extremities; costa yellowish.

Allied to *H. pœcila*.

*Hab.* Amazons.

a. ♀. (Type of species.)

Amazons.

H. W. Bates, Esq.

115. *Hylotoma atripes*.

*Hylotoma atripes*, *Holmgren, Eugeniæ Resa, Zool., Ins.* p. 391 (1868).

*Hab.* Rio Janeiro.

116. *Hylotoma fulcrata*.

*Hylotoma fulcrata*, *Klug, Jahrb. d. Insect.* i. p. 240, n. 57 (1834).

*Hab.* Brazil.

a, b. ♀.

Petropolis\*.

J. Gray, Esq.

117. *Hylotoma xanthospila*.

*Hylotoma xanthospila*, *Klug, Jahrb. d. Insect.* i. p. 239, n. 55 (1834).

*Hab.* Brazil.

118. *Hylotoma ventralis*.

*Hylotoma ventralis*, *Klug, Jahrb. d. Insect.* i. p. 240, n. 56 (1834).

*Hab.* Brazil.

119. *Hylotoma carbonaria*.

*Hylotoma carbonaria*, *Klug, Jahrb. d. Insect.* i. p. 240, n. 58 (1834).

*Hab.* Brazil.

---

\* Captured Feb. 1857 (MS. note).

120. *Hylotoma melanaria*.

*Hylotoma melanaria*, *Klug, Jahrb. d. Insect. i.* p. 240, n. 59 (1834).

*Hab.* Brazil.

## Subfamily III. LOBOCERATINÆ.

I propose this new subfamily for three remarkable genera which will not accord well with any defined group, being intermediate between several. They resemble some of the *Cimbicinae* (*Perga*, &c.) in the absence of a discoidal cell; the densely pubescent antennæ resemble *Schizocerus*, and the middle spurs connect them with *Hylotoma*; while their general appearance is that of the typical *Tenthredininae*.

## 34. PERANTHERIX.

*Perantherix*, *Westw. Thes. ent. Oxon.* p. 109 (1874).

1. *Perantherix pumilio*.

*Perantherix pumilio*, *Westw. Thes. ent. Oxon.* p. 109, pl. xx. fig. 1 (1874).

*Hab.* Amazons.

2. *Perantherix fatima*.

(Plate VI. fig. 7.)

Exp. al. 7 lin., long. corp.  $3\frac{1}{2}$  lin.

Testaceous; eyes, antennæ (except basal joint), two longitudinal spots on thorax above, extreme apex of abdomen beneath, and last three joints of all the tarsi black. Wings hyaline, yellowish towards the extremity of the fore wings; costa yellow.

*Hab.* Amazons.

*a.* ♂. (Type of species.)

Amazons.

H. W. Bates, Esq.

## 35. LOBOCERAS.

Antennæ 7-jointed, densely clothed with short diverging hairs, which sometimes renders the divisions between the joints rather indistinct; second joint shorter than the first, the third not much longer than the fourth, and the remainder of nearly equal length; the last truncated and hollowed at the apex, giving them the appearance of being broken off when viewed from beneath, but, if so, all the specimens before me have been broken in the same manner, which is improbable. Head large, about as wide as thorax; eyes large and prominent; thorax of the usual form, more or less deeply channelled; abdomen moderately long. Legs moderately long and thick; hind coxæ

long and large, almost as in *Macrophya*; anterior and hind tibiæ with two spurs at the extremity, intermediate tibiæ with one at the extremity and another in the middle; all very long and sharp, especially the inside spur on the hind tibiæ; first joint of tarsi as long as all the remainder. Wings rather long, moderately broad, with one marginal (appendiculate) and four submarginal cells, the first and second each receiving a recurrent nervure; no lanceolate cell, the commencement of two lower anal veins being lost in the inner margin near the base: hind wings with one middle cell and all the marginal cells open; the appendiculate cell is much larger on the hind wings than on the fore wings.

### 1. *Loboceras mexicanum*.

(Plate VI. fig. 4.)

Exp. al. 10 lin., long. corp. 4 lin.

Testaceous; antennæ (except the two first joints), abdomen (from the end of the fifth segment), femora (except at the base), and tarsi black. Wing yellowish hyaline, darker on the fore wings, with yellow nervures; tips smoky, with black nervures.

*Hab.* Mexico.

a. ♀. (Type of species.)

Orizaba.

M. Sallé.

### 2. *Loboceras hippolyte*.

(Plate VI. fig. 6.)

Exp. al. 11 lin., long. corp.  $4\frac{1}{2}$  lin.

Resembles the last species. Testaceous; antennæ, except the two basal joints, cheeks, front and centre of mesothorax, the two last joints of the abdomen, and the hind tarsi and extremities of the hind tibiæ black. Wings as in the last species, but clearer, especially before the dark apex of the fore wings and on the hind wings.

*Hab.* Amazons.

a. ♀. (Type of species.)

Amazons.

H. W. Bates, Esq.

### 3. *Loboceras lucidum*.

(Plate VI. fig. 5.)

Exp. al. 7-8 lin., long. corp. 4 lin.

Shining testaceous; head (except mouth), a spot in front of thorax (sometimes absent), scutellum, more or less of the apex of the abdomen, and the fore hinder tibiæ and tarsi and front tarsi, and sometimes the front tibiæ also, black. Wings hyaline, costa and nervures black, base and apex infuscated.

*Hab.* Amazons.

a-c. ♀. (Type of species.)

Amazons.

H. W. Bates, Esq.

## 36. AULACOMERUS.

*Aulacomerus*, *Spin. Ann. Soc. Ent. Fr.* ix. p. 137 (1840).

1. *Aulacomerus buquetii*.

*Aulacomerus buquetii*, *Spin. Ann. Soc. Ent. Fr.* ix. p. 140, pl. vii. no. 1 (1840).

*Hab.* Cayenne.

2. *Aulacomerus* (?) *ebenus*.

*Aulacomerus* (?) *ebenus*, *Cresson, Trans. Amer. Ent. Soc.* viii. p. 10 (1880).

*Hab.* Colorado.

## Subfamily IV. PTERYGOPHORINÆ.

## 37. PTERYGOPHORUS.

*Pterygophorus*, *Klug, Berl. Mag.* vi. p. 276 (1814).

1. *Pterygophorus cygnus*.

(Plate VI. fig. 10.)

Exp. al. 8 lin., long. corp. 4 lin.

Antennæ black, deeply pectinated; mesothorax, base and extremity of abdomen, and a row of dots on the sides violet-blue; prothorax, a large adjoining spot below the fore wings, scutellum, a stripe behind it, and the greater portion of the abdomen luteous; femora violet-blue; tibiæ luteous, violet at the extremity; tarsi apparently ringed with violet and luteous. Wings smoky hyaline, with black nervures; costa black, stigma violaceous, preceded by a small yellow mark.

*Hab.* West Australia.

*a.* ♂. (Type of species.)      Swan River.      Mr. Du Boulay.

2. *Pterygophorus cyaneus*.

*Pterygophorus cyaneus*, *Leach, Zool. Misc.* iii. p. 119, n. 3 (1817).

*Hab.* Australia.

|                   |                         |                   |
|-------------------|-------------------------|-------------------|
| <i>a.</i> ♀.      | Lower Plenty, Victoria. | R. Bakewell, Esq. |
| <i>b.</i> ♂.      | Australia.              | Mr. Dæme          |
| <i>c, d.</i> ♂ ♀. | Australia.              |                   |

3. *Pterygophorus leachii*.

(Plate VI. fig. 9.)

Exp. al. 10-11 lin., long. corp. 4-5 lin.

*Male*. Steel-blue; prothorax, hinder halves of the scutellum, hinder portion of the metathorax, and first segment of the abdomen luteous; two last segments of the abdomen rufous above and at the sides; legs ochraceous, the greater part of the femora and of the hind tarsi blackish. Wings hyaline, with black nervures, strongly glossed with violet, especially on the fore wings.

*Female*. Similar, but more shining, the scutellum and metathorax merely edged with luteous behind; penultimate segment of the abdomen luteous above in the middle; scapulæ luteous, legs mostly testaceous, femora darker.

*Hab.* Queensland.*a, b.* ♂ ♀. (Types of species.)

Port Bowen.

A. Simpson.

4. *Pterygophorus cinctus*.

*Pterygophorus cinctus*, *Klug, Berl. Mag.* vi. p. 278, pl. vii. figs. 1 & 2 (1814); *Leach, Zool. Misc.* iii. p. 119, no. 2, pl. cxlviii. fig. 6 (1817).

*Hab.* Australia.*a.* ♂.

Lower Plenty, Victoria.

R. Bakewell, Esq.

*b, c.* ♀.

Sydney.

Mr. Argent.

*d.* ♀.

Hunter River.

J. Macgillivray.

*e-h.* ♂ ♀.

Australia.

Mr. Dæmel.

*i.* ♀.

North Coast.

J. Byres, Esq.

*k-m.* ♂ ♀.

Australia.

5. *Pterygophorus interruptus*.

*Pterygophorus interruptus*, *Klug, Berl. Mag.* vi. p. 279, n. 2, pl. vii. fig. 3 (1814); *Leach, Zool. Misc.* iii. p. 118, n. 1 (1817).

*Hab.* Australia, Tasmania.*a, b.* ♂ ♀.

Lower Plenty, Victoria.

R. Bakewell, Esq.

*c.* ♀.

North coast of Australia.

J. Byres, Esq.

*d, e.* ♂ ♀.

Australia.

Mr. Dæmel.

*f.* ♀.

Tasmania.

A. Simpson.

*g.* ♀.

Tasmania.

*h-k.* ♂ ♀.

Tasmania.

6. *Pterygophorus bifasciatus*.

*Pterygophorus bifasciatus*, *Brullé, Hym.* iv. p. 661, pl. xlv. fig. 1 (1846).

*Hab.* Tasmania.



7. *Pterygophorus analis*.

*Pterygophorus analis*, *Costa, Ann. Mus. Nap.* ii. p. 66 (1864).

*Hab.* Australia.

|              |                 |              |
|--------------|-----------------|--------------|
| <i>a.</i> ♀. | Goulburn River. | Capt. Parry. |
| <i>b.</i> ♀. | Adelaide.       | Mr. Wilson.  |

## Subfamily V. LOPHYRIDINÆ.

## 38. LOPHYRUS.

*Lophyrus*, *Latr. Hist. Nat. Crust. Ins.* iii. p. 302 (1802); *Klug, Berl. Mag.* vi. p. 45 (1814); *Hart. Blattw.* p. 116 (1837).  
*Diprion*, p., *Schrank, Fauna Boica*, ii. pt. 2, p. 252 (1802).

1. *Lophyrus nemorum*.

*Tenthredo nemorum*, *Fabr. Ent. Syst.* ii. p. 111, n. 24 (1793).  
*Lophyrus nemorum*, *Klug, Berl. Mag.* vi. p. 49, n. 1 (1814); *Hart. Blattw.* p. 116, n. 1 (1837).

*Hab.* Central Europe.

|                   |          |              |
|-------------------|----------|--------------|
| <i>a-c.</i> ♂ ♀.  | Germany. | J. F. Ruthe. |
| <i>d, e.</i> ♂ ♀. | Europe.  |              |

2. *Lophyrus virens*.

*Lophyrus virens*, *Klug, Berl. Mag.* vi. p. 58, n. 7 (1814); *Hart. Blattw.* p. 119, n. 2 (1837); *Vollenh. Tijdschr. Ent.* xvi. p. 1, pl. i. (1872).

*Hab.* Central Europe.

|                 |          |              |
|-----------------|----------|--------------|
| <i>a, b.</i> ♀. | Germany. | J. F. Ruthe. |
|-----------------|----------|--------------|

3. *Lophyrus hercyniæ*.

*Lophyrus hercyniæ*, *Hart. Blattw.* p. 123, n. 3 (1837).

*Hab.* Harz.

4. *Lophyrus polytomus*.

*Lophyrus polytomus*, *Hart. Blattw.* 124, n. 4 (1837).

*Hab.* Germany.

5. *Lophyrus dorsatus*.

*Tenthredo dorsata*, *Panz. Faun. Germ.* Heft 62, pl. ix. (1799).  
*Tenthredo pinastri*, *Bechst. & Scharf. Nat. schäd. Forstins.* iii. p. 864 (1805).

*Lophyrus pallidus*, *Klug, Berl. Mag.* vi. p. 54, n. 4 (1814); *Hart. Blattw.* p. 126 (1837).

*Lophyrus minor*, *St.-Farg. Mon. Tenth.* p. 54, n. 155 (1823).

*Hab.* Europe.

|                |           |                  |
|----------------|-----------|------------------|
| <i>a.</i> ♀.   | Scotland. | P. Cameron, Esq. |
| <i>b-d.</i> ♀. | Germany.  | J. F. Ruthe.     |

## 6. *Lophyrus laricis*.

*Pteronus laricis*, *Jurine, Hym.* pl. vi. gen. 6 (1807).

*Lophyrus laricis*, *Klug, Berl. Mag.* vi. p. 59, n. 8 (1814); *Hart. Blattw.* p. 131, n. 6 (1837).

*Hab.* Europe.

|                 |          |              |
|-----------------|----------|--------------|
| <i>a, b.</i> ♀. | Germany. | J. F. Ruthe. |
| <i>c-e.</i> ♀.  | Europe.  |              |

## 7. *Lophyrus frutetorum*.

*Tenthredo frutetorum*, *Fabr. Ent. Syst.* ii. p. 111, n. 25 (1793).

*Lophyrus frutetorum*, *Klug, Berl. Mag.* vi. p. 56, n. 6 (1814); *Hart. Blattw.* p. 134, n. 7 (1837).

*Diprion pini*, *Schränk, Fauna Boica*, ii. pt. 2, p. 253 (1802).

*Tenthredo eques*, *Schränk, N. Mag. Ent.* i. p. 288 (1798).

*Hab.* Europe.

|                |          |              |
|----------------|----------|--------------|
| <i>a-d.</i> ♀. | Germany. | J. F. Ruthe. |
|----------------|----------|--------------|

## 8. *Lophyrus variegatus*.

*Lophyrus variegatus*, *Hart. Blattw.* p. 137, n. 8 (1837).

*Hab.* Central Europe.

|                  |          |              |
|------------------|----------|--------------|
| <i>a-e.</i> ♂ ♀. | Germany. | J. F. Ruthe. |
| <i>f.</i> ♂.     | Europe.  |              |

## 9. *Lophyrus pini*.

*Tenthredo pini*, *Linn. Syst. Nat.* i. p. 556, n. 8 (1758); *Faun. Suec.* p. 390 (1761).

*Lophyrus pini*, *Klug, Berl. Mag.* vi. p. 50, n. 2 (1814); *Curt. Brit. Ent.* ii. pl. liv. (1825); *Hart. Blattw.* p. 141 (1837); *Vollenh. Tijdschr. Ent.* i. p. 180, pl. ii. (1858), xiii. p. 71, pl. iv. figs. 4 & 5 (1870).

♀. *Tenthredo dorsata*, *Fabr. Spec. Ins.* i. p. 408, n. 15 (1781).

*Hab.* Europe.

|                            |          |                 |
|----------------------------|----------|-----------------|
| <i>a-d.</i> ♂ ♀.           | Britain. | J. F. Stephens. |
| <i>e-g.</i> ♂ ♀.           | Britain. |                 |
| <i>h, i.</i> (Pupa-cases.) | Britain. |                 |
| <i>k-p.</i> ♂ ♀.           | Germany. | J. F. Ruthe.    |
| <i>q.</i> ♀.               | Europe.  |                 |

10. *Lophyrus eremita*.

*Lophyrus eremita*, *Thoms. Hym. Scand.* i. p. 62 (1871).

*Lophyrus similis*, var. 3, *Hart. Blattw.* p. 161 (1837).

*Hab.* Germany, Sweden.

11. *Lophyrus similis*.

*Lophyrus similis*, *Hart. Blattw.* p. 160, n. 10 (1837); *Vollenh. Tijdschr. Ent.* ii. p. 134, pl. viii. (1859).

*Hab.* Holland, Germany.

12. *Lophyrus catocalus*.

*Lophyrus catocalus*, *Vollenh. Bouwst. Faun. Ned.* ii. p. 276 (1852).

*Hab.* Holland.

13. *Lophyrus sertiferus*.

*Tenthredo sertifera*, *Fourcr. Ent. Par.* ii. p. 378, n. 46 (1785).

*Tenthredo juniperi*, *Christ, Ins.* p. 432, pl. xlix. fig. 4 (1791).

*Lophyrus rufus*, *Klug, Berl. Mag.* vi. p. 53, n. 3 (1814); *Hart. Blattw.* p. 160, n. 11 (1837); *Vollenh. Tijdschr. Ent.* iv. p. 65, pl. i. (1861).

*Lophyrus piceæ*, *St.-Farg. Mon. Tenth.* p. 56, n. 160 (1823).

*Hab.* Europe generally.

|                   |                      |                      |
|-------------------|----------------------|----------------------|
| <i>a.</i> ♂.      | Sunning Hill, Berks. | Capt Parry.          |
| <i>b, c.</i> ♀.   | Weybridge.           | W. C. Hewitson, Esq. |
| <i>d-o.</i> ♂ ♀.  | Britain.             | J. F. Stephens.      |
| <i>p-r.</i> ♂ ♀.  | Britain.             |                      |
| <i>s-x.</i> ♂ ♀.  | Germany.             | J. F. Ruthe.         |
| <i>y-aa.</i> ♂ ♀. | Europe.              |                      |

14. *Lophyrus mosquensis*.

*Nycteridium mosquense*, *Fisch. Mém. Mosc.* i. p. 287 (1806).

*Hab.* Moscow.

15. *Lophyrus fischeri*.

*Nycteridium fischeri*, *Fisch. Mém. Mosc.* i. p. 287 (1806).

*Hab.* Moscow?

16. *Lophyrus pineti*.

*Lophyrus pineti*, *Hart. Blattw.* p. 166, n. 12 (1837).

*Hab.* Carinthia.

17. *Lophyrus socius*.

*Lophyrus socius*, *Klug, Berl. Mag.* vi. p. 60, n. 9 (1814); *Hart. Blattw.* p. 167, n. 13 (1837).

*Hab.* Northern and Eastern Europe.

18. *Lophyrus pallipes*.

*Hylotoma pallipes*, *Fall. Vetensk. Akad. Handl.* xxix. p. 41 (1808).

*Lophyrus elongatulus*, *Klug, Berl. Mag.* vi. p. 55, n. 5 (1814); *Hart. Blattw.* p. 169, n. 14 (1837).

*Hab.* Central Europe.

*a-e.* ♂ ♀.

Germany.

J. F. Ruthe.

19. *Lophyrus politus*.

*Lophyrus politus*, *Klug, Berl. Mag.* vi. p. 60, n. 10 (1814); *Hart. Blattw.* p. 170, n. 15 (1837).

*Hab.* Carinthia.

*a, b.* ♂ ♀.

Europe.

20. *Lophyrus pulchricornis*.

*Lophyrus pulchricornis*, *Bremi, Stett. ent. Zeit.* x. p. 94 (1849).

*Hab.* Switzerland.

21. *Lophyrus tropicus*.

*Lophyrus tropicus*, *Norton, Trans. Amer. Ent. Soc.* ii. p. 322 (1869).

*Hab.* Mexico.

22. *Lophyrus cordoviensis*.

*Lophyrus cordoviensis*, *Norton, Trans. Amer. Ent. Soc.* ii. p. 323 (1869).

*Hab.* Mexico.

23. *Lophyrus fabricii*.

(Plate VI. fig. 11.)

*Lophyrus fabricii*, *Leach, Zool. Misc.* iii. p. 120, n. 3 (1817).

Exp. al.  $7\frac{1}{2}$  lin., long. corp.  $3\frac{1}{2}$  lin.

Luteous; antennæ black except at base, 16-jointed; eyes and ocelli black; thorax with the frontal lobe brownish, and the side lobes blackish in the middle. Wings clear hyaline; costa and stigma yellowish; lanceolate cell almost contracted, with oblique cross nervure.

*Hab.* Georgia.

*a.* ♀. (Type of species.) Georgia. Probably from Abbot's collection.

24. *Lophyrus compar*.

*Lophyrus compar*, *Leach, Zool. Misc.* iii. p. 121, n. 4 (1817).

*Hab.* Georgia.

25. *Lophyrus lateralis*.

*Lophyrus lateralis*, *Cresson, Trans. Amer. Ent. Soc.* viii. p. 25 (1880).

*Hab.* Georgia.

26. *Lophyrus pini-rigidæ*.

*Lophyrus pinus-rigida*, *Norton, Packard's Guide*, p. 228 (1868);  
*Trans. Amer. Ent. Soc.* ii. p. 323 (1869).

*Hab.* Massachusetts.

27. *Lophyrus abbotii*.

(Plate VI. fig. 12.)

*Lophyrus abbotii*, *Leach, Zool. Misc.* iii. p. 120 (1817); *Norton, Trans. Amer. Ent. Soc.* ii. p. 324 (1869).

Shining testaceous, more or less varied with brown above; antennæ black, except at base, 17-jointed; eyes and ocelli black. Wings hyaline, stigma yellowish; lanceolate cell almost contracted, with slightly oblique cross nervure.

*Hab.* Georgia.

|          |                       |          |  |
|----------|-----------------------|----------|--|
| a, b. ♀. | } (Types of species.) | Georgia. | Probably from Abbot's                  |
| c. ♀.    |                       |          | collection. (Ticketed <i>pineti</i> .) |

28. *Lophyrus akhursti*.

*Lophyrus akhursti*, *Norton, Trans. Amer. Ent. Soc.* ii. p. 324 (1869).

*Hab.* New Jersey.

29. *Lophyrus fulvus*.

*Lophyrus fulvus*, *Norton, Trans. Amer. Ent. Soc.* iv. p. 86 (1872).

*Hab.* United States.

a. ♀. New York.

30. *Lophyrus abietis*.

*Lophyrus abietis*, *Harr. Ins. Mass.* p. 376 (1841); *Norton, Trans. Amer. Ent. Soc.* ii. p. 325 (1869).

*Hab.* United States.

|           |                |
|-----------|----------------|
| a. ♂.     | New York.      |
| b-r. ♂ ♀. | North America. |

**31. *Lophyrus rileyi*.**

*Lophyrus rileyi*, Cresson, *Trans. Amer. Ent. Soc.* viii. p. 25 (1880).

*Hab.* Florida.

**32. *Lophyrus abdominalis*.**

*Lophyrus abdominalis*, Say, *Long's Second Exped.* ii. p. 315 (1824);  
Norton, *Trans. Amer. Ent. Soc.* ii. p. 328 (1869).

*Hab.* United States.

**33. *Lophyrus pinetorum*.**

*Lophyrus pinetum*, Norton, *Trans. Amer. Ent. Soc.* ii. p. 328 (1869).

*Hab.* Ohio.

**34. *Lophyrus americanus*.**

(Plate VI. fig. 8.)

*Lophyrus americanus*, Leach, *Zool. Misc.* iii. p. 120 (1817).

Exp. al.  $9\frac{1}{2}$  lin., long. corp. 5 lin.

Luteous; antennæ black, 19-jointed; eyes and ocelli black, ocelli placed on a black line; front and side lobes of thorax, scutellum, and metathorax all marked with black. Wings hyaline; lanceolate cell wider than in the other American species, with oblique cross nervures.

*Hab.* United States.

a. ♀. (Type of species.)

Georgia.

Probably from Abbot's collection.

**35. *Lophyrus lecontei*.**

*Lophyrus lecontei*, Fitch, *Rep. Nox. Ins.* iv. p. 58 (1859); Norton, *Trans. Amer. Ent. Soc.* ii. p. 329 (1867).

*Hab.* United States.

**36. *Lophyrus edwardsii*.**

*Lophyrus edwardsii*, Norton, *Trans. Amer. Ent. Soc.* ii. p. 330 (1869).

*Hab.* California.

**37. *Lophyrus fulviceps*.**

*Lophyrus fulviceps*, Cresson, *Trans. Amer. Ent. Soc.* viii. p. 25 (1880).

*Hab.* Nevada.

**38. *Lophyrus insularis*.**

*Lophyrus insularis*, Cresson, *Proc. Ent. Soc. Phil.* iv. p. 1 (1865).

*Hab.* Cuba.

## 39. MONOCTENUS.

*Monoctenus*, *Dahlb. Consp. Tenthr.* p. 3 (1835).

1. *Monoctenus juniperi*.

*Tenthredo juniperi*, *Linn. Syst. Nat.* i. p. 555, n. 9 (1758); *Faun. Suec.* p. 390 (1761).

*Lophyrus juniperi*, *Klug, Berl. Mag.* vi. p. 61, n. 11 (1814); *Hart. Blattw.* p. 61, n. 11 (1814).

*Tenthredo pterophorus*, *Sulz. Gesch. Ins.* pl. xviii. fig. 110 (1776).

*Hab.* Europe.

a-e. ♂ ♀.  
f-k. ♂ ♀.

Germany.  
Europe.

J. F. Ruthe.

2. *Monoctenus hirsutus*.

*Tenthredo hirsuta*, *Poda, Mus. Græc.* p. 102, n. 2 (1761).

*Lophyrus obscuratus*, *Hart. Blattw.* p. 172 (1837).

*Monoctenus obscuratus*, *Thoms. Hym. Scand.* i. p. 67 (1871).

*Hab.* Germany, Sweden.

a-e. ♂ ♀.

Germany.

J. F. Ruthe.

3. *Monoctenus subconstrictus*.

*Monoctenus subconstrictus*, *Thoms. Hym. Scand.* i. p. 67 (1871).

*Hab.* Sweden.

4. *Monoctenus mellicepe*.

*Lophyrus mellicepe*, *Cresson, Trans. Amer. Ent. Soc.* viii. p. 26 (1880).

*Hab.* Massachusetts.

5. *Monoctenus suffusus*.

*Lophyrus suffusus*, *Cresson, Trans. Amer. Ent. Soc.* viii. p. 26 (1880).

*Hab.* Massachusetts.

## 40. PERREYIA.

*Perreyia*, *Brullé, Hym.* vi. p. 661 (1846)\*.

*Brachytoma* (*Klug, MS.*), *Westw. Thes. ent. Oxon.* p. 109 (1874),  
*nom. præoc.*

---

\* The type of *Perreyia* has 13-jointed antennæ; Norton adds a species with 12 joints; while Westwood's genus *Brachytoma* includes species with 13, 14, 17, and 20 joints, Klug's original type (*B. vitellina*) having 14. All the species before me (*anomala* excepted) differ in no important character except in the number of joints of the antennæ, which in some *Tenthredinidæ* (e. g. *Fenella nigrita*, Westw.) is not even a specific character.

1. *Perreyia lepida*.

*Perreyia lepida*, *Brullé*, *Hym.* iv. p. 661, pl. xlv. fig. 2 (1846).

*Hab.* South America.

a. ♀. Brazil.

b. ♀.

2. *Perreyia capitula*.

*Perreyia capitulum*, *Norton*, *Trans. Amer. Ent. Soc.* i. p. 223 (1867).

*Hab.* Mexico.

a. ♀.

Orizaba.

M. Sallé.

3. *Perreyia* (?) *anomala*.

(Plate VI. fig. 14.)

Exp. al. 10 lin., long. corp. 4 lin.

Uniform testaceous; head, antennæ, and four hind tarsi black; face testaceous. Antennæ 13(?)-jointed; third joint half as long again as fourth; fourth rather longer than the succeeding ones, which are of uniform length, and furnished with short processes on each side at the extremity. Wings smoky hyaline, clearer towards the edges; both recurrent nervures received by the second submarginal cell, the first near the middle, and the second just before the intersection of the second and third cells; lanceolate cell petiolated: hind wings with two middle cells.

*Hab.* Mexico.

a. ♀. (Type of species.)

Orizaba.

M. Sallé.

4. *Perreyia compta*.

(Plate VI. figs. 13 & 15.)

*Perreyia comptus*, *Norton*, *Trans. Amer. Ent. Soc.* i. p. 223 (1867).

*Hab.* Mexico.

a-d. ♂ ♀.

Orizaba\*.

M. Sallé.

5. *Perreyia picea*.

*Brachytoma picea*, *Westw. Thes. ent. Oxon.* p. 110, pl. xx. fig. 6 (1874).

*Hab.* Amazons.

a. ♀.

Santarem†.

H. W. Bates, Esq.

\* One specimen has five submarginal cells on one side, the third cell being completely divided by an additional nervule. Norton professes to have described a male; but I doubt if he was acquainted with any male of this genus. The insect which appears to be the male of *P. compta* has pectinated antennæ, a dull fulvous thorax, a black scutellum, and the abdomen clouded with brown.

† The female differs little from Prof. Westwood's description of the male, except in the antennæ, which are not pectinated, and appear to be only 12-jointed.



6. *Perreyia vitellina*.

*Brachytoma vitellina*, *Westw. Thes. ent. Oxon.* p. 110, pl. xx. fig. 5 (1874).

*Hab.* Brazil.

7. *Perreyia amazonica*.

(Plate VI. fig. 17.)

*Exp.* al. 7 lin., long. corp. 3 lin.

Black; thorax, pectus, and coxæ wholly testaceous; wings smoky brown, with black dots in the median and second submarginal cells.

Closely allied to *P. vitellina*, *Westw.*, but differs in the colour of the legs, which are described as “*fulvis, tarsi paullo obscurioribus*” in *vitellina*, whereas in *P. amazonica* they are almost entirely black.

*Hab.* Amazons.

*a, b.* ♀. (Types of species.)      Amazons.      H. W. Bates, Esq.

8. *Perreyia melanoptera*.

*Lophyrus melanopterus*, *Perty, Del. Anim. Art.* p. 130, pl. xxvi. fig. 6 (1830–1834).

*Hab.* Amazons.

9. *Perreyia fumipennis*.

*Brachytoma fumipennis*, *Westw. Thes. ent. Oxon.* p. 110, pl. xx. fig. 3 (1874).

*Hab.* Amazons.

*a.* ♂.      Amazons.      H. W. Bates, Esq.

10. *Perreyia nigriceps*.

*Brachytoma nigriceps*, *Westw. Thes. ent. Oxon.* p. 109, pl. xx. fig. 2 (1874).

*Hab.* Amazons.

## 41. CAMPTOPRIUM.

*Camptoprium*, *Spin. Ann. Soc. Ent. Fr.* ix. p. 134 (1840).

1. *Camptoprium leprieuri*.

*Camptoprium leprieuri*, *Spin. Ann. Soc. Ent. Fr.* ix. p. 136, pl. vii. fig. 2 (1840).

*Hab.* Cayenne.

2. *Camptoprium atripenne*.

*Hylotoma atripennis*, *Fabr. Syst. Piez.* p. 27, n. 26 (1804).

*Hab.* South America.

*a.* ♀.

Tapajos.

H. W. Bates, Esq.

3. *Camptoprium humerale*.

(Plate VI. fig. 16.)

Exp. al. 9 lin., long. corp. 4 lin.

Steel-blue; a spot at the base of the wings above, front legs (tarsi and a line on the outside tibiæ excepted), intermediate coxæ, and undersurface of femora and pectus (except a dark spot in front of each of the intermediate coxæ) reddish testaceous. Wings smoky brown, with very wide and distinct bullar lines running through the submarginal and discoidal cells, and above the anal veins.

Possibly the male of the last species.

*Hab.* Amazons.

*a.* ♂. (Type of species.)

Santarem.

H. W. Bates, Esq.

4. *Camptoprium* (?) *nigriceps*.

(Plate VI. fig. 18.)

Exp. al. 7-8 lin., long. corp. 3 lin.

Shining testaceous, darkest on the thorax; head and antennæ black; four hind tibiæ and tarsi fuscous; antennæ with only 10 joints, less distinctly separated than in the other species. Wings fuscous, slightly iridescent; a large bulla at the outer angle of the first discoidal cell, the diverging bullar lines only faintly indicated; a very distinct white dot at the base of the stigma, and a black one in the second submarginal cell.

Closely resembles *Perreyia* (?) *anomala*; but the antennæ differ so much that I dare not unite them as sexes.

*Hab.* Mexico.

*a, b.* ♂. (Types of species.)

Orizaba.

M. Sallé.

42. *ACHERDOCERUS*.

Shape of *Selandria*. Antennæ short, 9-jointed, second joint very short, third rather longer than the others, which are pear-shaped and much widened at the extremity; head transverse, very small, not more than half the width of thorax. Wings with one marginal appendiculate cell and four submarginal cells, the second and third each receiving a recurrent nervure; lanceolate cell very small, petiolated; at the outer angle of the first discoidal cell is a large

bulia; a white line runs from the first submarginal cell, and forks about the middle of the second, intersecting the remainder of the submarginal and discoidal cells, and widely expanding in the outer ones, without reaching the hind margin: hind wings with one middle cell; a simple white line runs above all the anal veins. Legs slender, not very long; tibiæ with two short terminal spurs.

Allied to *Decameria* and to *Perreyia*.

1. *Acherdocerus fumipennis*.

(Plate VII. fig. 1.)

Exp. al. 6 lin., long. corp.  $2\frac{1}{2}$  lin.

Black, shining; thorax, pectus, and undersurface of head reddish testaceous; legs piecuous, femora and hind legs darker; wings smoky brown.

*Hab.* Mexico.

*a.* ♀.                      Orizaba.                      M. Sallé.

### 43. DECAMERIA.

Decameria, *St.-Fargeau, Enc. Méth.* x. p. 371 (1825).

*Dictynna*, Brullé (nec Westw.), *Hym.* iv. p. 662 (1836).

As St.-Fargeau characterized this genus very briefly, although recognizably, and indicated no types, I have thought it necessary to recharacterize it, taking *testacea* as the type. It differs from *Acherdocerus* in its 10-jointed antennæ, the want of an appendicular cell on the fore wings, &c.

Head small, narrow; antennæ 10-jointed, the first two joints small, the third joint twice as long as the remainder, which are of about equal length and obtusely expanded at the extremities. Fore wings with the marginal cell broad, not appendiculate, and four submarginal cells, the three first of nearly equal size, the first recurrent nervure received between the first and second, and the second just beyond the juncture of the second and third; lanceolate cell petiolated, very small: hind wings with the marginal cell appendiculate, and with one inner cell.

1. *Decameria testacea*.

(Plate VII, fig. 2.)

\*Exp. al.  $5\frac{1}{2}$  lin., long. corp.  $2\frac{1}{2}$  lin.

Testaceous; head above the antennæ, hind legs below the middle of the femora, and the four last joints of the intermediate tarsi black. Wings hyaline with piceous nervures, tips and a broad stripe across the centre dusky; stigma yellow, with a yellow crescent below; the whole of the first discoidal cell is covered by the central dusky band (which extends within and below it), except

a large bulla at the outer angle ; the outer transverse nervures on the fore and hind wings are also broken.

*Hab.* Amazons.

*a.* ♂. (Type of species.)                      Amazons.                      H. W. Bates, Esq.

## 2. *Decameria polita*.

*Dictynna polita*, Norton, *Trans. Amer. Ent. Soc.* iv. p. 81 (1872).

*Hab.* Mexico.

## 3. *Decameria cordovensis*.

*Dictynna cordovensis*, Norton, *Trans. Amer. Ent. Soc.* iv. p. 81 (1872).

*Hab.* Mexico.

## 4. *Decameria* (?) *westwoodii*.

*Dictynna westwoodii*, Brullé, *Hym.* iv. p. 662, pl. xlv. fig. 5 (1846).

*Hab.* Rio Grande\*.

## 44. EURYS.

*Eurys*, Newman, *Ent.* p. 90 (1841).

*Dictynna*, Westwood (*nec* *Dictyna*, Sundev.), *Arc. Ent.* i. p. 24 (1841).

### 1. *Eurys æratus*.

*Eurys æratus*, Newman, *Ent.* p. 90 (1841).

*Hab.* South Australia.

*a.* ♀.                      Adelaide.

### 2. *Eurys lætus*.

*Dictynna læta*, Westwood, *Arc. Ent.* i. p. 24, pl. vii. fig. 4 (1841).

*Hab.* South Australia ; Tasmania.

*a.* ♀.                      Adelaide.

### 3. *Eurys nitidus*.

(Plate VII. fig. 4.)

Exp. al. 6 lin., long. corp. 3 lin.

Head and thorax, scutellum, and first segment of abdomen brilliant green ; metathorax and abdomen bluish coppery, varied with duller green towards the extremity of the abdomen ; antennæ black, labrum pale yellowish ; undersurface brilliant green, with pale

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\* The figure appears to represent the fore-wing cell as appendiculate ; but as this would contradict Brullé's own diagnosis of the genus, I leave the insect here at present, though it is more probably congeneric with some of the species which I have placed provisionally in *Camptoprium*.

yellowish spots on the sides of the abdomen; femora green at the base, the legs otherwise rufo-testaceous; hind tarsi and extremities of the hind tibiæ black. Wings hyaline, fore wings with a faint yellowish shade.

*Hab.* Australia.

*a.* ♀. (Type of species.)

Australia.

Mr. Damel.

#### 45. EURYOPSIS.

Antennæ 11-jointed, the third joint longest, the remaining joints of about equal length and width, each strongly widened at the extremity. Fore wings with one marginal appendiculate cell and four submarginal cells, the three first similar in shape and size, the second and third each receiving a recurrent nervure; lanceolate cell petiolated.

Allied to *Eurys*, Newm. (*Dictynna*, Westw.).

##### 1. *Euryopsis nitens*.

(Plate VII. fig. 5.)

Exp. al. 6 lin., long. corp. 3 lin.

Shining greenish blue; antennæ black; legs testaceous; wings hyaline.

*Hab.* South Australia.

*a.* ♂. (Type of species.)

Adelaide.

#### 46. ANCYLONEURA.

*Ancyloneura*, Cameron, *Trans. Ent. Soc. Lond.* 1877, p. 91.

Antennæ 13-jointed, the third joint longest, the last conical; legs short, rather stout. Wings with one marginal (not appendiculate) cell and four submarginal cells, the three first of nearly equal size, the second with a black dot in the middle; the recurrent nervures received about the middle of the second and third cells; lanceolate cell petiolated: hind wings with no middle cell, owing to the nervure which should bound it towards the base being incomplete.

##### 1. *Ancyloneura nigripes*.

(Plate VII. fig. 7.)

*Cryptocampus nigripes*, Smith, *Journ. Linn. Soc., Zool.* v. p. 136 (1861).

*Hab.* New Guinea.

*a, b.* ♀.

New Guinea\*.

A. R. Wallace, Esq.

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\* Mr. Cameron has determined this species by an examination of the type, formerly in Mr. W. W. Saunders's collection, and now in the Hope Museum at Oxford. It is closely allied to, if not identical with, *A. varipes*. In one specimen in the British Museum the first four joints of the antennæ are white, except at the extremities.

2. *Ancyloneura varipes*.

(Plate VII. fig. 6.)

*Ancyloneura varipes*, *Cameron, Trans. Ent. Soc. Lond.* 1877, p. 92.

Exp. al. 6 lin., long. corp. 3 lin.

Black, shining, covered with a fine whitish down; legs whitish, femora reddish, hind tibiæ and tarsi blackish; wings iridescent hyaline, clouded towards the extremities.

*Hab.* Aru Islands.

a. ♀. (Type of species.) Aru Islands.

47. *CLADOMACRA*.*Cladomacra*, *Smith, Ann. Nat. Hist.* (3) vi. p. 256 (1860).

*Male.* Antennæ 16-jointed, pilose, at least as long as the whole body, the second joint short, all the others of nearly equal length; each joint is thickened into a round knob at the extremity, and from the base of the underside projects a very long pilose ramus; the last joint is thickened in the middle and curved beyond. Head transverse; eyes prominent, projecting a little in front. Fore wings with one marginal (not appendiculate) and four submarginal cells, the first nearly round, about the same size as the second, which is almost square and marked with the usual black spot; the third and fourth larger and oblong; all the transverse nervules with bullæ, and a detached bulla in the first discoidal cell; basal cell with a black dot near the extremity; lanceolate cell petiolated. Hind wings with one middle cell; interno-median cell broad, less than half the length of the wing, and expanded beyond the middle; the nervure bounding it below is marked with a bulla towards the extremity, and throws off a branch in opposite directions on each side, neither of which quite extend to the inner margin; legs with all their parts very long and slender, simple; tibiæ with two short spines at the extremity. Abdomen short, moderately broad.

*Female* unknown.

Mr. Smith placed this genus in the collection between *Cladius* and *Perreyia*; the bullæ are nearly similar to those of *P. lepida*.

1. *Cladomacra macropus*.

(Plate VII. fig. 8.)

*Cladomacra macropus*, *Smith, Ann. Nat. Hist.* (3) vi. p. 257 (1860);  
*Journ. Linn. Soc., Zool.* viii. pl. iv. fig. 1 (1865).

Exp. al. 7 lin., long. corp. 3 lin.

Rufo-testaceous; abdomen and more or less of the hind legs black: this is variable—in one specimen they are wholly black, and the extremities of the intermediate tibiæ and tarsi are blackish; in

another only the extremities of the hind tibiæ and the last three tarsi are black above; the antennæ are black, but more or less of the basal joints are of the ground-colour. Wings light brown, opaque, iridescent, nervures dark brown.

*Hab.* Celebes, New Guinea.

- |                                 |             |                     |
|---------------------------------|-------------|---------------------|
| <i>a.</i> ♂. (Type of species.) | Menado.     | A. R. Wallace, Esq. |
| <i>b.</i> ♂.                    | New Guinea. | A. R. Wallace, Esq. |
| <i>c.</i> ♂.                    |             |                     |

## 48. POLYCLONUS.

Antennæ about as long as the thorax and abdomen together, 18-jointed, each joint throwing off a long pilose ramus from the extremity; last joint tapering. Head transverse, narrow, less produced behind than in *Cladomacra*; eyes not projecting in front. Fore wings with one marginal (not appendiculate) cell, and four sub-marginal cells, the three first of nearly equal size, the fourth large, goblet-shaped; no bullæ; lanceolate cell petiolated. Hind wings with one middle cell; interno-median cell moderately broad, slightly constricted in the middle, extending three quarters of the length of the wing, and not throwing off any nervules to the inner margin. Legs simple, hind tibiæ with two long terminal spurs. Abdomen moderately short and broad, slightly keeled.

### 1. *Polyclonus atratus*.

(Plate VII. fig. 3.)

Exp. al.  $3\frac{1}{2}$  lin., long. corp. 2 lin.

Black, first two pairs of legs testaceous; femora blackish; hind legs blackish, knees and upper portion of the tibiæ testaceous. Wings clear hyaline, with piceous nervures.

*Hab.* Australia.

- |                                 |            |            |
|---------------------------------|------------|------------|
| <i>a.</i> ♂. (Type of species.) | Australia. | Mr. Damel. |
|---------------------------------|------------|------------|

## Subfamily VI. NEMATINÆ.

### 49. CLADIUS.

*Cladius*, *Illiger*, *Rossi's Faun. Etr.* ii. p. 27 (1807).

#### 1. *Cladius ramicornis*.

*Cladius ramicornis*, *André*, *Hym. Eur.* i. p. 80 (1879).

*Hab.* Germany.

2. *Cladius pectinicornis*.

- Tenthredo pectinicornis*, *Fourcr. Ent. Par.* ii. p. 374, n. 33 (1785).  
*Cladius geoffroyi*, *St.-Farg. Mon. Tenth.* p. 58, n. 166 (1823).  
*Cladius difformis*, *Hart. Blattw.* p. 175 (1837); *Vollenh. Tijdschr. Ent.* xi. p. 202, pl. ix. (1868); *Thoms. Hym. Scand.* i. p. 71 (1871).  
*Cladius pectinicornis*, *Costa, Faun. Nap., Tentr.* p. 9, pl. lxiii. fig. 1 (antenna) (1859).  
*Tenthredo alces*, *Thunb. Mus. Ups.* p. 7, n. 85 (1804?).  
*Var. Cladius lacteus*, *Hart. Blattw.* p. 176 (1837).

*Hab.* Europe.

|                    |          |                     |
|--------------------|----------|---------------------|
| <i>a-i.</i> ♂ ♀.   | Britain. | J. F. Stephens.     |
| <i>k-o.</i> ♂ ♀.   | Britain. |                     |
| <i>p.</i> ♀.       | England. | T. R. Billups, Esq. |
| <i>q-aa.</i> ♂ ♀.  | Germany. | J. F. Ruthe.        |
| <i>bb-dd.</i> ♂ ♀. | Europe.  |                     |

3. *Cladius difformis*.

- Tenthredo difformis*, *Panz. Faun. Germ.* Heft 62, pl. x. (1799).  
*Cladius difformis*, *St.-Farg. Mon. Tenth.* p. 57, n. 165 (1823); *Costa, Faun. Nap., Tentr.* p. 10, pl. lxiii. fig. 2 (antenna) (1859).

*Hab.* Switzerland, Italy.

4. *Cladius isomerus*.

- Cladius isomera*, *Norton, Proc. Bost. Soc.* viii. p. 223 (1861); *id. Trans. Amer. Ent. Soc.* i. p. 74 (1867).

*Hab.* North America.

|                |   |               |
|----------------|---|---------------|
| <i>a-d.</i> ♀. | St. Martin's Falls, Albany River,<br>Hudson's Bay*. | Dr. Barnston. |
| <i>e.</i> ♂.   | North America.                                      |               |

## 50. TRICHIOCAMPUS.

*Trichiocampus*, *Hart. Blattw.* p. 176 (1837).

1. *Trichiocampus viminalis*.

- Tenthredo viminalis*, *Fall. Vetensk. Handl.* xxix. p. 117, n. 59 (1808).  
*Cladius viminalis*, *Vollenh. Tijdschr. Ent.* i. p. 176, pl. x. (1858);  
*Thoms. Hym. Scand.* i. p. 74, n. 5 (1871).  
*Nematus grandis*, *St.-Farg. Mon. Tenth.* p. 61, n. 179 (1823).  
♂. *Cladius luteicornis*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 24, n. 7, pl. xxxviii. fig. 1 (1835).  
*Cladius eucera*, *Hart. Blattw.* p. 177 (1837).

*Hab.* Northern and Central Europe.

\* Two of these specimens were bred from bright yellow caterpillars, spotted with black on the sides, found feeding on smooth willow and aspen on July 29, 1838. (MS. note.)



|  |           |                 |
|--|-----------|-----------------|
| <i>a, b.</i> ♂. (Types of <i>C. luteicornis</i> .) | Britain.  | J. F. Stephens. |
| <i>c-g.</i> ♀. (As <i>C. grandis</i> .)            | Britain.  | J. F. Stephens. |
| <i>h.</i> ♀. (As <i>C. pectoralis</i> .)           | Britain*. | J. F. Stephens. |
| <i>i.</i> ♂.                                       | Britain.  |                 |
| <i>k-n.</i> ♂ ♀.                                   | Germany.  | J. F. Ruthe.    |

### 2. *Trichiocampus pectoralis*.

*Nematus pectoralis*, *St.-Farg. Mon. Tenth.* p. 62, n. 180 (1823).

*Hab.* Paris.

### 3. *Trichiocampus rufipes*.

*Cladius rufipes*, *St.-Farg. Mon. Tenth.* p. 58, n. 167 (1823); *Thoms.*

*Hym. Scand.* i. p. 72 (1871).

*Cladius uncinnata*, *Hart. Blattw.* p. 176 (1837).

*Cladius uncinnatus*, *Vollenh. Tijdschr. Ent.* iv. p. 84, pl. iv. (1861).

*Hab.* Central Europe.

|  |          |                 |
|--|----------|-----------------|
| <i>a-h.</i> ♂ ♀.                           | Britain. | J. F. Stephens. |
| <i>i-p.</i> ♂ ♀. (As <i>T. pallipes</i> .) | Britain. | J. F. Stephens. |
| <i>q, r.</i> ♂.                            | Britain. |                 |
| <i>s-v.</i> ♂ ♀. (As <i>T. morio</i> .)    | Britain. | J. F. Stephens. |
| <i>w-bb.</i> ♂ ♀.                          | Germany. | J. F. Ruthe.    |

### 4. *Trichiocampus garbiglietti*.

*Trichiocampus garbiglietti*, *Costa, Ann. Mus. Nap.* ii. p. 103 (1864).

? *Nematus pallipes*, *St.-Farg. Mon. Tenth.* p. 62, n. 182 (1823).

? *Cladius pallipes*, *Guér. Ic. R. Anim., Ins.* pl. lxiv. fig. 6 (1829).

*Hab.* Italy.

### 5. *Trichiocampus morio*.

*Cladius morio*, *St.-Farg. Mon. Tenth.* p. 58, n. 168 (1823).

*Cladius eradiatus*, *Hart. Blattw.* p. 176 (1837); *Thoms. Hym. Scand.*  
i. p. 72 (1871).

*Hab.* Central Europe.

|                  |          |                 |
|------------------|----------|-----------------|
| <i>a-e.</i> ♂ ♀. | Britain. | J. F. Stephens. |
| <i>f-h.</i> ♂ ♀. | Britain. |                 |
| <i>i-n.</i> ♂ ♀. | Germany. | J. F. Ruthe.    |

### 6. *Trichiocampus æneus*.

*Cladius æneus*, *Zadd. Besch. Blattw. Preuss.* p. 12, fig. 4 (1859).

*Hab.* Prussia.

### 7. *Trichiocampus drewseni*.

*Cladius drewseni*, *Thoms. Hym. Scand.* i. p. 73 (1871).

*Hab.* Europe.

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\* A variety with the pectus wholly luteous, but not agreeing with St.-Fargeau's description of his *Nematus pectoralis*.

a. ♀.  
b. ♀.

Germany.  
Europe.

J. F. Ruthe.

### 8. *Trichiocampus discrepans*.

*Cladius discrepans*, *Costa, Faun. Nap., Tentr.* p. 11, pl. lxxiii. fig. 3 (antenna) (1859).

*Hab.* Naples.

## 51. PRIOPHORUS.

*Priophorus*, *Dahlb. Consp. Tenth.* p. 4 (1835); *Hart. Blattw.* p. 178 (1837).

### 1. *Priophorus padi*.

*Tenthredo padi*, *Linn. Faun. Suec.* p. 390, n. 1544 (1861).

*Cladius padi*, *Thoms. Hym. Scand.* i. p. 75, n. 5 (1871).

*Tenthredo albipes*, *Fallén, Vetensk. Handl.* xxix. p. 110, n. 47 (1808).

*Cladius immunis*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 24, n. 3 (1837).

*Cladius albipes*, *Hart. Blattw.* p. 178 (1837); *Vollenh. Tijdschr. Ent.* vi. p. 74, pl. v. (1863).

*Cladius pilicornis*, *Curt. Brit. Ent.* x. pl. cccclvii. (1833).

*Nematus crassicornis et melanostigma*, *Steph. Ill. Brit. Ent., Mand.* vii. pp. 28, 35, nn. 3, 36 (1835).

*Hab.* Central Europe.

|  |                      |                   |
|--|----------------------|-------------------|
| a-p. ♂ ♀. (As <i>C. pilicornis</i> .)    | Britain.             | J. F. Stephens.   |
| q-w. ♂ ♀. (Types of <i>C. immunis</i> .) | Britain.             | J. F. Stephens.   |
| x-bb. ♂ ♀. (As <i>C. varipes</i> .)      | Britain.             | J. F. Stephens.   |
| cc-ee. ♂ ♀. (As <i>C. atra</i> .)        | Britain.             | J. F. Stephens.   |
| ff-ii. ♂ ♀.                              | West of England.     | W. E. Leach.      |
| kk. ♀.                                   | Departement of Aude. | Rev. A. E. Eaton. |
| ll. ♀.                                   | Aix-la-Chapelle.     | Prof. Foerster.   |
| mm-eee. ♂ ♀.                             | Germany.             | J. F. Ruthe.      |

### 2. *Priophorus brullei*.

*Priophorus brullei*, *Dahlb. Clavis Hym.* p. 20, n. 14 (1835).

*Cladius brullei*, *Thoms. Hym. Scand.* i. p. 75, n. 7 (1871).

*Cladius brullæi*, *Cameron, Proc. N.H. Soc. Glasg.* iii. p. 26 (1876).

*Hab.* Sweden; Scotland.

### 3. *Priophorus tener*.

*Cladius tener*, *Zadd. Beschr. Blattw. Preuss.* p. 11 (1859).

*Hab.* Prussia.

4. *Priophorus tristis*.

*Cladius tristis*, *Zadd. Besch. Blattw. Preuss.* p. 11 (1859).

*Hab.* Prussia.

5. *Priophorus simplicicornis*.

*Cladius simplicicornis*, *Norton, Trans. Amer. Ent. Soc.* ii. p. 367 (1869).

*Hab.* Maine.

6. *Priophorus æqualis*.

*Cladius æqualis*, *Norton, Trans. Amer. Ent. Soc.* iv. p. 78 (1872).

*Hab.* Connecticut.

## 52. PRISTIPHORA \*.

*Pristiphora*, sect. 3, *St.-Farg. Mon. Tenth.* p. 61 (1823); *Hart. Blattw.* p. 183, note (1837).

1. *Pristiphora varipes*.

*Pristiphora varipes*, *St.-Farg. Mon. Tenth.* p. 61, n. 178 (1823)  
*Hart. Blattw.* p. 183 (1837).

*Hab.* France.

## 53. CAMPONISCUS.

*Camponiscus*, *Newm. Ent.* iv. p. 215 (1869).  
*Leptopus*, *Hart. Blattw.* p. 184 (1837), *nom. præocc.*

1. *Camponiscus luridiventris*.

*Tenthredo luridiventris*, *Fallén, Vetensk. Handl.* xxix. p. 115 (1808).  
*Leptocercus luridiventris*, *Thoms. Hym. Scand.* i. p. 78 (1871).  
*Nematus hypogastricus*, *Hart. Blattw.* p. 184 (1837); *Herr.-Schäff. Deutschl. Ins.* Heft 164 (1839).  
*Leptopus rufipes*, *Först. Verh. Ver. Rheinl.* xi. p. 276 (1854).  
*Camponiscus healei*, *Newm. Ent.* iv. p. 215 (1869).

*Hab.* Central Europe.

a. ♀.

Germany.

J. F. Ruthe.

\* *Pristiphora*, Latr., is merely a section of *Nematus*, founded on the presence of three instead of four submarginal cells, a character which is not constant in *Nematus*, even in the same species. St.-Fargeau extended it to include *Euvra*; but it is now restricted provisionally to a species with very remarkable neuration, which has not been seen since it was first described. When rediscovered, it will require a new generic name; for *Pristiphora*, as already explained, is inadmissible.

54. **EPILACTUS.**

*Epilactus*, Först. *Verh. Ver. Rheinl.* xi. p. 435 (1854).

1. *Epilactus præcox.*

*Epilactus præcox*, Först. *Verh. Ver. Rheinl.* xi. p. 435 (1854).

*Hab.* Aix-la-Chapelle.

55. **CRÆSUS.**

*Cræsus*, Leach, *Zool. Misc.* iii. p. 129 (1817); *Hart. Blattw.* p. 124 (1837); *Norton, Trans. Amer. Ent. Soc.* i. p. 83 (1867).

1. *Cræsus septentrionalis.*

*Tenthredo septentrionalis*, Linn. *Syst. Nat.* i. p. 537, n. 24 (1758); *Faun. Suec.* p. 393 (1761); *Panz. Faun. Germ.* Heft 64, pl. xi. (1799).

*Tenthredo largipes*, Retz. *Gen. Sp. Ins.* p. 73, n. 309 (1783).

*Cræsus septentrionalis*, Curt. *Brit. Ent.* i. pl. xvii. (1823); *Costa, Faun. Nap., Tentr.* p. 12, pl. lxiii. fig. 45 (1859).

*Nematus septentrionalis*, Hart. *Blattw.* p. 184, n. 2 (1837); *Vollenh. Tijdschr. Ent.* ii. p. 74, pl. v. (1858); *Zadd. Schrift. Königsb.* xv. p. 54 (1874).

*Nematus laticrus*, De Villaret, *Ann. Soc. Ent. Fr.* i. p. 307, pl. xi. fig. 7 (1832).

*Hab.* Europe.

*a-m.* ♂ ♀.  
*n, o.* ♂ ♀.

Britain.  
Britain.

J. F. Stephens.

2. *Cræsus latipes.*

*Nematus latipes*, De Villaret, *Ann. Soc. Ent. Fr.* i. p. 306, pl. xi. figs. 4-6 (1832); *Vollenh. Tijdschr. Ent.* x. p. 174, pl. viii. (1867); *Zadd. Schrift. Königsb.* xv. p. 56 (1874).

*Hab.* Central Europe.

*a-c.* ♀.

Germany.

J. F. Ruthe.

3. *Cræsus brischkii.*

*Nematus brischkii*, *Zadd. Schrift. Königsb.* xv. p. 57 (1874).

*Hab.* Oliva.

4. *Cræsus varus.*

*Nematus varus*, De Villaret, *Ann. Soc. Ent. Fr.* i. p. 306, pl. xi. fig. 8 (1832); *Vollenh. Tijdschr. Ent.* vi. p. 76, pl. vi. (1863); *Zadd. Schrift. Königsb.* xv. p. 58 (1874).

*Hab.* Europe; North America.

|                  |              |                 |
|------------------|--------------|-----------------|
| <i>a-c.</i> ♂.   | Britain.     | J. F. Stephens. |
| <i>d.</i> ♂.     | Britain.     |                 |
| <i>e-l.</i> ♂ ♀. | Germany.     | J. F. Ruthe.    |
| <i>m.</i> ♂.     | Nova Scotia. | Lieut. Redman.  |

5. *Cræsus stephensii*.

*Cræsus stephensii*, *Newm. Ent. Mag.* iv. p. 261 (1837).

*Hab.* Ireland\*.

6. *Cræsus latitarsus*.

*Cræsus latitarsus*, *Norton, Proc. Ent. Soc. Phil.* i. p. 199 (1862);  
*id. Trans. Amer. Ent. Soc.* i. p. 84 (1867).

*Hab.* United States.

7. *Cræsus laticulus*.

*Cræsus laticulus*, *Norton, Trans. Amer. Ent. Soc.* ii. p. 368 (1869).

*Hab.* United States.

## 56. NEMATUS.

*Nematus*, *Panz. Ins. Germ.* Heft xc. pl. x. (1805); *Jur. Hym.* p. 59 (1807).  
*Messa* †, *Leach, Zool. Misc.* iii. p. 126 (1817).

A. *European Species.*1. *Nematus cinctus*.

*Pristiphora cincta*, *Newm. Ent. Mag.* iv. p. 259 (Jan. 1837).  
*Nematus erichsonii*, *Hart. Blattw.* p. 187 (1837); *Zadd. Schrift. Königsb.* xvi. p. 60 (1876).

*Hab.* Central Europe.

|                   |          |                 |
|-------------------|----------|-----------------|
| <i>a.</i> ♀.      | Britain. | J. F. Stephens. |
| <i>b, c.</i> ♂ ♀. | Germany. | J. F. Ruthe.    |

2. *Nematus quercus*.

*Nematus quercus*, *Hart. Blattw.* p. 188 (1837); *Thoms. Hym. Scand.* i. p. 95 (1871); *Zadd. Schrift. Königsb.* xvi. p. 61 (1876).  
*Tenthredo borealis*, *Zett. Ins. Lapp.* p. 353, n. 53 (1838).

*Hab.* Central Europe.

|                 |          |              |
|-----------------|----------|--------------|
| <i>a, b.</i> ♀. | Germany. | J. F. Ruthe. |
| <i>c.</i> ♀.    | Sweden.  |              |

\* Possibly an erroneous locality. It may be identical with one of Norton's American species, in both of which the abdomen appears to be black.

† This genus appears to have been founded upon some small species of *Nematus*, which Leach mistook for *Fenusa hortulana*, Klug.

3. *Nematus anderschi*.

*Nematus anderschi*, *Zadd. Schrift. Königsb.* xvi. p. 62 (1875).

*Hab.* Tilsit ?

4. *Nematus pallidiventris*.

*Tenthredo pallidiventris*, *Fallén, Vetensk. Handl.* xxix. p. 120, n. 63 (1808).

*Nematus pallidiventris*, *Thoms. Æfv. Vet.-Akad. Förh.* xix. p. 110, n. 35 (1862); *id. Hym. Scand.* i. p. 110 (1871).

*Hab.* Sweden.

5. *Nematus punctifrons*.

*Nematus punctifrons*, *Thoms. Hym. Scand.* i. p. 111 (1871).

*Hab.* Sweden, Germany.

*a-f.* ♂ ♀.

Germany.

J. F. Ruthe.

6. *Nematus fumipennis*.

*Nematus fumipennis*, *Thoms. Hym. Scand.* i. p. 112 (1871).

*Hab.* Sweden.

7. *Nematus filicornis*.

*Nematus filicornis*, *Thoms. Æfv. Vet.-Akad. Förh.* xix. p. 625, n. 23 (1862); *id. Hym. Scand.* i. p. 113 (1871).

*Hab.* France, Sweden.

8. *Nematus obductus*.

*Nematus obductus*, *Hart. Blattw.* p. 201 (1837); *Thoms. Æfv. Vet.-Akad. Förh.* xix. p. 626, n. 25 (1862); *id. Hym. Scand.* i. p. 114 (1871).

? *Pristiphora duplex*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 26 (1835).

*Hab.* Central Europe.

*a.* ♀.

Britain.

J. F. Stephens.

9. *Nematus conductus*.

*Nematus conductus*, *Ruthe, Stett. ent. Zeit.* xx. p. 305 (1859).

*Nematus graminis*, *Cameron, Ent. M. Mag.* x. p. 221 (1874).

*Hab.* North Europe.

*a-d.* ♀.

Britain.

J. F. Stephens.

*e.* ♀.

Germany.

J. F. Ruthe.

10. *Nematus lucidus*.

*Tenthredo lucida*, *Panz. Faun. Germ.* Heft 82, pl. x. (1801).

*Nematus lucida*, *Hart. Blattw.* p. 187 (1837); *Zadd. Schrift. Königsb.* xvi. p. 63 (1876).

*Nematus cinctus*, *St.-Farg. Mon. Tenth.* p. 66, n. 198 (1823).

*Nematus lucidus*, *Costa, Faun. Nap., Tentr.* p. 14, pl. lxiii. fig. 6 (1859).

*Hab.* Europe.

*a-e.* ♂ ♀.

Britain.

J. F. Stephens.

*f-i.* ♂ ♀.

Britain.

### 11. *Nematus insignis*.

*Nematus insignis*, *Hart. Stett. ent. Zeit.* i. p. 22, n. 6 (1840); *Thoms. Hym. Scand.* i. p. 121 (1871); *Zadd. Schrift. Königsb.* xvi. p. 65 (1876).

*Hab.* Silesia, Sweden.

### 12. *Nematus princeps*.

*Nematus princeps*, *Zadd. Schrift. Königsb.* xvi. p. 65 (1876).

*Hab.* East Germany, Finland.

### 13. *Nematus histrio*.

*Nematus histrio*, *St.-Farg. Mon. Tenth.* p. 63, n. 185 (1823); *Herr.-Schöff. Deutschl. Insect.* Heft 164 (1839); *Zadd. Schrift. Königsb.* xvi. p. 67 (1876).

*Nematus rufescens*, *Hart. Blattw.* p. 191 (1837); *Thoms. Hym. Scand.* i. p. 130 (1871).

*Hab.* Europe.

*a-e.* ♂ ♀.

Germany.

J. F. Ruthe.

*f.* ♀.

### 14. *Nematus longiserra*.

*Nematus longiserra*, *Thoms. Œfv. Vet.-Akad. Förh.* xix. p. 632, n. 39 (1862); *id. Hym. Scand.* i. p. 128 (1871); *Zadd. Schrift. Königsb.* xvi. p. 68 (1876).

*Hab.* North Europe.

### 15. *Nematus nigratus*.

*Tenthredo nigrata*, *Retz. Gen. Sp. Ins.* p. 73, n. 310 (1783).

*Nematus melanosternus*, *St.-Farg. Mon. Tenth.* p. 65, n. 190 (1823).

*Hab.* Europe.

### 16. *Nematus scabrivalvis*.

*Nematus scabrivalvis*, *Thoms. Hym. Scand.* i. p. 132 (1871).

*Hab.* Sweden.

### 17. *Nematus brachycercus*.

*Nematus brachycercus*, *Hart. Stett. ent. Zeit.* i. p. 25, n. 47 (1840).

*Nematus scotonotus*, *Först. Verh. Ver. Rheinl.* xvi. p. 310, pl. v. fig. 24 (1854).

*Hab.* Germany.

18. *Nematus hæmorrhoidalis*.

*Nematus hæmorrhoidalis*, *Spin. Ins. Lig.* ii. p. 20, pl. iv. fig. 15 (1808).

*Nematus nigricornis*, *fallax*, *vittatus*, *tæniatus*, *et humeralis*, *St.-Farg. Mon. Tenth.* pp. 63-66 (1823).

*Tenthredo capreæ*, *Fall. Vetensk. Handl.* xxix. p. 121, n. 64 (1808).

*Nematus striatus*, *Hart. Blattw.* p. 191 (1837); *Thoms. Hym. Scand.* i. p. 131 (1871).

*Nematus melanoleucus*, *Hart. Stett. ent. Zeit.* i. p. 27, n. 88 (1840);  
? *Gimm. Arb. Nat. Riga*, i. p. 48 (1848).

*Nematus variabilis*, *Tischb. Stett. ent. Zeit.* vii. p. 78 (1846).

*Nematus squalidus*, *Eversm. Bull. Mosc.* xx. p. 21 (1847).

*Nematus incanus*, *Först. Verh. Ver. Rheinl.* xi. p. 302, pl. v. fig. 18 (1854).

*Nematus fallax*, *Zadd. Schrift. Königsb.* xvi. p. 69 (1876).

*Hab.* Europe.

|  |           |                  |
|--|-----------|------------------|
| <i>a.</i> ♂. (As <i>N. pavidus</i> .)    | Britain.  | J. F. Stephens.  |
| <i>b.</i> ♀. (As <i>N. oblitus</i> .)    | Britain.  | J. F. Stephens.  |
| <i>c-h.</i> ♂ ♀. (As <i>N. capreæ</i> .) | Britain.  | J. F. Stephens.  |
| <i>i.</i> ♀.                             | Scotland. | P. Cameron, Esq. |
| <i>k-aa.</i> ♂ ♀.                        | Germany.  | J. F. Ruthe.     |

19. *Nematus segmentarius*.

*Nematus segmentarius*, *Först. Verh. Ver. Rheinl.* xi. p. 283, pl. iv. fig. 5 (1854).

*Hab.* Aix-la-Chapelle.

20. *Nematus amentorum*.

*Nematus amentorum*, *Först. Verh. Ver. Rheinl.* xi. p. 332, pl. vii. fig. 42 (1854).

*Hab.* Crefeld.

21. *Nematus geniculatus*.

*Nematus geniculatus*, *Hart. Stett. ent. Zeit.* i. p. 26, n. 62 (1840).

*Hab.* Germany.

22. *Nematus einersbergensis*.

*Nematus einersbergensis*, *Hart. Stett. ent. Zeit.* i. p. 26, n. 63 (1840); *André, Hym.* i. p. 139 (1880).

*Hab.* Germany.

23. *Nematus mœrens*.

*Nematus mœrens*, *Först. Verh. Ver. Rheinl.* xi. p. 294, pl. v. fig. 12 (1854).

*Hab.* Aix-la-Chapelle.



24. *Nematus schmidtii*.

*Nematus schmidtii*, *Gimm. Stett. ent. Zeit.* v. p. 37 (1844).

*Hab.* Riga.

25. *Nematus apicalis*.

*Nematus apicalis*, *Hart. Blattw.* p. 201 (1837).

*Hab.* Germany; Scotland.

26. *Nematus decipiens*.

*Nematus ambiguus*, *Först. (nec Fall.) Verh. Ver. Rheinl.* xi. p. 279, pl. iv. fig. 2 (1854).

*Hab.* Aix-la-Chapelle.

27. *Nematus confusus*.

*Nematus confusus*, *Först. Verh. Ver. Rheinl.* xi. p. 280, pl. iv. fig. 3 (1854).

*Hab.* Aix-la-Chapelle.

28. *Nematus variator*.

*Nematus variator*, *Ruthe, Stett. ent. Zeit.* xx. p. 308 (1859); *Zadd. Schrift. Königsb.* xvi. p. 73 (1876).

*Hab.* Iceland, Finland, N.E. Germany.

29. *Nematus incertus*.

*Nematus hæmorrhoidalis*, *Hart. (nec Spin.) Stett. ent. Zeit.* i. p. 26, n. 65 (1840); *André, Hym.* i. p. 160 (1880).

*Hab.* Germany, France.

30. *Nematus brachyotus*.

*Nematus brachyotus*, *Först. Verh. Ver. Rheinl.* xi. p. 295, pl. v. fig. 13 (1854).

*Hab.* Aix-la-Chapelle.

31. *Nematus subæqualis*.

*Nematus subæqualis*, *Först. Verh. Ver. Rheinl.* xi. p. 305, pl. v. fig. 20 (1854).

*Hab.* Aix-la-Chapelle.

32. *Nematus anomalopterus*.

*Nematus anomalopterus*, *Först. Verh. Ver. Rheinl.* xi. p. 308, pl. v. fig. 22 (1854).

*Hab.* Aix-la-Chapelle.

33. *Nematus brevicornis*.

*Nematus brevicornis*, Först. (nec Thoms.) *Verh. Ver. Rheinl.* xi. p. 335, pl. vii. fig. 44 (1854).

*Nematus foersteri*, André, *Hym.* i. p. 152 (1880).

*Hab.* Aix-la-Chapelle.

34. *Nematus capreæ*.

*Tenthredo capreæ*, Panz. (nec Linn.) *Faun. Germ.* Heft lxx. pl. viii. (1799).

*Nematus capreæ*, Zadd. *Schrift. Königsb.* xvi. p. 75 (1876).

*Nematus clitellatus*, St.-Farg. *Mon. Tenth.* p. 62, n. 183 (1823).

*Nematus pallicercus*, Hart. *Blattw.* p. 190 (1837).

*Nematus griseus et continuus*, Eversm. *Bull. Mosc.* xx. pp. 18, 19 (1847).

*Nematus trisignatus et circumscriptus*, Först. *Verh. Ver. Rheinl.* xi. pp. 292, 301, pl. v. figs. 11, 17 (1854).

*Hab.* Europe.

|                                     |          |                 |
|-------------------------------------|----------|-----------------|
| a-c. ♂ ♀. (As <i>N. tæniatus</i> .) | Britain. | J. F. Stephens. |
| d-f. ♂ ♀. (As <i>N. capreæ</i> .)   | Britain. | J. F. Stephens. |
| g-k. ♂ ♀. (As <i>N. fallax</i> .)   | Britain. | J. F. Stephens. |
| l-m. ♂ ♀.                           | Germany. | J. F. Ruthe.    |

VAR. *Nematus kirbyi*, Dahlb. *Clavis novi Hym.* fig. 4 (1835); *Thoms. Öfv. Vet.-Akad. Förh.* xix. p. 626, n. 26 (1862); *id. Hym. Scand.* i. p. 115 (1871).

? *Nematus analis*, Steph. *Ill. Brit. Ent., Mand.* vii. p. 35, n. 33 (1835).

*Nematus cinereus*, Eversm. *Bull. Mosc.* xx. p. 18 (1847).

*Hab.* Europe.

|         |          |              |
|---------|----------|--------------|
| a-g. ♂. | Germany. | J. F. Ruthe. |
|---------|----------|--------------|

35. *Nematus vernalis*.

*Nematus vernalis*, Hart. *Stett. ent. Zeit.* i. p. 23, n. 22 (1840).

*Nematus fruticum*, Eversm. *Bull. Mosc.* xx. p. 18 (1847).

*Hab.* Europe.

|       |           |                 |
|-------|-----------|-----------------|
| a. ♀. | Britain*. | J. F. Stephens. |
|-------|-----------|-----------------|

36. *Nematus humeralis*.

*Tenthredo humeralis*, Zett. *Ins. Lapp.* p. 351, n. 48 (1838).

*Nematus humeralis*, Thoms. *Hym. Scand.* i. p. 132 (1871).

*Hab.* Lapland.

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\* Stands in the collection as *N. analis*, Stephens, but does not agree well with the description.

**37. Nematus canaliculatus.**

*Nematus canaliculatus*, *Hart. Stett. ent. Zeit.* i. p. 23 (1840); *Zadd. Schrift. Königsb.* xvi. p. 79 (1876).

*Nematus stenogaster*, *Först. Verh. Ver. Rheinl.* xi. p. 339, pl. vi. fig. 46 (1854).

*Nematus pleuralis*, *Thoms. Öfv. Vet.-Akad. Förh.* xix. p. 614, n. 1 (1862); *id. Hym. Scand.* i. p. 117, n. 41 (1871).

*Hab.* Europe.

a. ♂. Britain.

**38. Nematus denudatus.**

*Nematus denudatus*, *Hart. Stett. ent. Zeit.* i. p. 23 (1840).

*Hab.* Germany.

**39. Nematus leucotrochus.**

*Nematus leucotrochus*, *Hart. Blattw.* p. 193 (1837).

*Hab.* Harz.

**40. Nematus nigricans.**

*Nematus nigricans*, *Eversm. Bull. Mosc.* xx. p. 16 (1847).

*Hab.* Kasan.

**41. Nematus incompletus.**

*Nematus incompletus*, *Först. Verh. Ver. Rheinl.* xi. p. 297, pl. v. fig. 14 (1854).

*Hab.* Aix-la-Chapelle.

**42. Nematus fuscomaculatus.**

*Nematus fuscomaculatus*, *Först. Verh. Ver. Rheinl.* xi. p. 291, pl. iv. fig. 10 (1854).

*Hab.* Aix-la-Chapelle.

**43. Nematus maculiventris.**

*Nematus maculiventris*, *Hart. Stett. ent. Zeit.* i. p. 25, n. 50 (1840).

*Hab.* Germany.

**44. Nematus caudalis.**

*Nematus caudalis*, *Eversm. Bull. Mosc.* xx. p. 16 (1847).

*Hab.* Kasan.

**45. Nematus bellus.**

*Nematus bellus*, *André, Hym.* i. p. 155 (1880).

*Hab.* Prussia.

46. *Nematus pullatus*.

*Nematus pullatus*, *André, Hym.* i. p. 153 (1880).

*Hab.* Prussia.

47. *Nematus palliceps*.

*Nematus palliceps*, *Hart. Stett. ent. Zeit.* i. p. 25, n. 51 (1840).

*Hab.* Germany.

48. *Nematus prototypus*.

*Nematus prototypus*, *Först. Verh. Ver. Rheinl.* xi. p. 311, pl. v. fig. 25 (1854).

*Hab.* Aix-la-Chapelle.

49. *Nematus biscalis*.

*Nematus biscalis*, *Först. Verh. Ver. Rheinl.* xi. p. 326, pl. vi. fig. 37 (1854).

*Hab.* Aix-la-Chapelle.

50. *Nematus punctulatus*.

*Nematus punctulatus*, *Thoms. Æfv. Vet.-Akad. Förh.* xix. p. 626, n. 27 (1862); *id. Hym. Scand.* i. p. 117 (1871).

*Hab.* Scandinavia.

51. *Nematus punctipleuris*.

*Nematus punctipleuris*, *Thoms. Æfv. Vet.-Akad. Förh.* xix. p. 628, n. 31 (1862); *id. Hym. Scand.* i. p. 118 (1871).

*Hab.* Sweden.

52. *Nematus excisus*.

*Nematus excisus*, *Thoms. Æfv. Vet.-Akad. Förh.* xix. p. 628, n. 31 (1862); *id. Hym. Scand.* i. p. 118 (1871).

*Hab.* Sweden.

53. *Nematus rumicis*.

*Tenthredo rumicis*, *Fall. Vetensk. Handl.* xxix. p. 123, n. 63 (1808).  
*Nematus rumicis*, *Thoms. Æfv. Vet.-Akad. Förh.* xix. p. 627, n. 28 (1862); *id. Hym. Scand.* i. p. 119 (1871).

*Nematus capreæ*, *Hart. Blattw.* p. 198 (1837).

*Hab.* Europe.

a. ♂.  
 b-g. ♂ ♀.  
 r. ♂.

Britain.  
 Germany.  
 Sweden.

J. F. Stephens.  
 J. F. Ruthe.

54. *Nematus albitarsis*.

*Nematus albitarsis*, *André, Hym. i. p. 159* (1880).

*Hab.* Switzerland.

55. *Nematus catachloris*.

*Nematus catachloris*, *Vollenh. Tijdschr. Ent. xii. p. 120, pl. iii. fig. 1* (1869).

*Hab.* Holland.

56. *Nematus olivaceus*.

*Nematus olivaceus*, *Thoms. Hym. Scand. i. p. 120* (1871).

*Hab.* Sweden.

57. *Nematus immundus*.

*Nematus immundus*, *Thoms. Öfv. Vet.-Akad. Förh. xix. p. 625, n. 24* (1862); *id. Hym. Scand. i. p. 121* (1871).

*Hab.* Sweden.

58. *Nematus nobilis*.

*Nematus insignis*, *Thoms. Öfv. Vet.-Akad. Förh. xix. p. 121* (1862); *id. Hym. Scand. i. p. 121* (1871).

*Hab.* Sweden.

59. *Nematus villosus*.

*Nematus villosus*, *Thoms. Öfv. Vet.-Akad. Förh. xix. p. 629, n. 35* (1862); *id. Hym. Scand. i. p. 127* (1871).

*Hab.* Sweden, Lapland.

60. *Nematus hyperboreus*.

*Nematus hyperboreus*, *Thoms. Hym. Scand. i. p. 127* (1871).

*Hab.* Sweden ; Scotland.

61. *Nematus clibrichellus*.

*Nematus clibrichellus*, *Cameron, Proc. N. H. Soc. Glasg. iii. Faun. Scot., Hym. i. p. 32, n. 13* (1878).

*Hab.* Scotland.

62. *Nematus imperfectus*.

*Nematus imperfectus*, *Zadd. Schrift. Königsb. xvi. p. 80* (1876).

*Hab.* Northern and Central Europe.

63. *Nematus umbripennis*.

*Nematus umbripennis*, *Eversm. Bull. Mosc.* xx. p. 20 (1847); *Zadd. Schrift. Königsb.* xvi. p. 81 (1876).

*Hab.* Kasan; N.E. Germany.

64. *Nematus turgidus*.

*Nematus turgidus*, *Zadd. Schrift. Königsb.* xvi. p. 82 (1876).  
*Nematus pallicercus*, *Thoms. Hym. Scand.* i. p. 148 (1871).

*Hab.* Prussia, Sweden.

65. *Nematus umbrinus*.

*Nematus umbrinus*, *Zadd. Schrift. Königsb.* xvi. p. 84 (1876).

*Hab.* East Germany.

66. *Nematus furvescens*.

*Nematus furvescens*, *Cameron, Proc. N. H. Soc. Glasg.* ii. p. 308 (1876).

*Hab.* Scotland.

67. *Nematus leucostigmus*.

*Nematus leucostigmus*, *Cameron, Proc. N. H. Soc. Glasg.* ii. p. 308 (1876).

*Hab.* Scotland.

68. *Nematus interstitialis*.

*Nematus interstitialis*, *Cameron, Proc. N. H. Soc. Glasg.* ii. p. 260 (1876).

*Hab.* Scotland.

69. *Nematus mœstus*.

*Nematus mœstus*, *Zadd. Schrift. Königsb.* xvi. p. 85 (1876).

*Hab.* Danzig.

70. *Nematus wesmaeli*.

*Nematus wesmaeli*, *Tischb. Stett. ent. Zeit.* xiv. p. 347 (1853); *Zadd. Schrift. Königsb.* xvi. p. 86 (1876).

*Nematus solea*, *Vollenh. Tijdschr. Ent.* xiii. p. 59, pl. i. figs. 1 a-e (1870).

*Hab.* Holland, Germany.

71. *Nematus affinis*.

*Nematus affinis*, *St.-Farg. Mon. Tenth.* p. 69, n. 210 (1823).

*Nematus saxesenii et compressus*, *Hart. Blattw.* pp. 212, 213 (1837).

*Nematus saxesenii*, *Zadd. Schrift. Königsb.* xvi. p. 87 (1876).

*Hab.* Northern and Central Europe.

72. *Nematus pini*.

*Tenthredo pini*, *Retz. Gen. Sp. Ins.* p. 73, n. 311 (1783).

*Tenthredo abietina*, *Christ, Nat. Ins.* p. 447 (1791).

*Nematus abietinus*, *Zadd. Schrift. Königsb.* xvi. p. 89 (1876).

*Nematus abietum*, *Hart. Convers. Lex.* p. 984 (1834); *id. Blattw.* p. 210, pl. iii. figs. 11-20 (1837).

*Hab.* Northern and Central Europe.

73. *Nematus conicus*.

*Nematus conicus*, *Hart. Stett. ent. Zeit.* i. p. 25, n. 45 (1840).

*Hab.* Germany.

74. *Nematus leptcephalus*.

*Nematus leptcephalus*, *Thoms. Öfv. Vet.-Akad. Förh.* xix. p. 632, n. 40 (1862); *id. Hym. Scand.* i. p. 133 (1871).

*Hab.* Lapland.

75. *Nematus fähræi*.

*Nematus fähræi*, *Thoms. Öfv. Vet.-Akad. Förh.* xix. p. 637, n. 49 (1862); *id. Hym. Scand.* i. p. 134 (1871).

*Hab.* Scania.

76. *Nematus placidus*.

*Nematus placidus*, *Cameron, Ent. M. Mag.* xiv. p. 225 (1878).

*Hab.* England.

77. *Nematus arcticus*.

*Nematus arcticus*, *Thoms. Hym. Scand.* i. p. 134 (1871).

*Hab.* Lapland.

78. *Nematus dahlbomi*.

*Nematus dahlbomi*, *Thoms. Hym. Scand.* i. p. 134 (1871).

*Nematus viduatus*, var. *c*, *Thoms. Öfv. Vet.-Akad. Förh.* xix. p. 637, n. 50 (1862).

*Hab.* Sweden.

79. *Nematus viduatus*.

*Tenthredo viduata*, *Zett. Ins. Lapp.* p. 351, n. 47 (1838).

*Nematus viduatus*, *Thoms. Öfv. Vet.-Akad. Förh.* xix. p. 637, n. 50 (1862); *id. Hym. Scand.* i. p. 135 (1871).

*Hab.* Scandinavia.

80. *Nematus truncatus*.

*Nematus truncatus*, *Hart. Blattw.* p. 207 (1837); *Thoms. Hym. Scand.* i. p. 108 (1871).

*Hab.* Harz, Sweden.

81. *Nematus micraulius*.

*Nematus micraulius*, *Först. Verh. Ver. Rheinl.* xi. p. 428 (1854).

*Hab.* Aix-la-Chapelle.

82. *Nematus xanthophorus*.

*Nematus xanthophorus*, *Hart. Stett. ent. Zeit.* i. p. 25, n. 52 (1840).

*Hab.* Germany.

*a-c.* ♂.

Germany.

J. F. Ruthe.

✱

83. *Nematus hypoleucus*.

*Nematus hypoleucus*, *Först. Verh. Ver. Rheinl.* xi. p. 304, pl. v. fig. 19 (1854).

*Hab.* Aix-la-Chapelle.

84. *Nematus scotaspis*.

*Nematus scotaspis*, *Först. Verh. Ver. Rheinl.* xi. p. 307, pl. v. fig. 21 (1854).

*Hab.* Aix-la-Chapelle.

85. *Nematus respondens*.

*Nematus respondens*, *Först. Verh. Ver. Rheinl.* xi. p. 427 (1854).

*Hab.* Austria?

86. *Nematus protensus*.

*Nematus protensus*, *Först. Verh. Ver. Rheinl.* xi. p. 322, pl. vi. fig. 34 (1854).

*Hab.* Aix-la-Chapelle.

87. *Nematus pineti*.

*Nematus pineti*, *Hart. Blattw.* p. 208 (1837).

*Hab.* Germany.

88. *Nematus ambiguus*.

*Tenthredo ambigua*, *Fallén, Vetensk. Handl.* xxix. p. 112, n. 50 (1808).

*Nematus ambiguus*, *Thoms. Öfv. Vet.-Akad. Förh.* xix. p. 624, n. 22 (1862); *id. Hym. Scand.* i. p. 109 (1871).

*Nematus parvus*, *Hart. Blattw.* p. 208 (1837).

*Hab.* Harz, Sweden.



89. *Nematus parallelus*.

*Nematus parallelus*, *Hart. Stett. ent. Zeit.* i. p. 25, n. 55 (1840).

*Hab.* Germany.

90. *Nematus macrocerus*.

*Nematus macrocerus*, *Hart. Stett. ent. Zeit.* i. p. 25, n. 56 (1840).

*Hab.* Germany.

91. *Nematus validicornis*.

*Nematus validicornis*, *Först. Verh. Ver. Rheinl.* xi. p. 341, pl. vi. fig. 47 (1854).

*Hab.* Aix-la-Chapelle.

92. *Nematus hypoxanthus*.

*Nematus hypoxanthus*, *Först. Verh. Ver. Rheinl.* xi. p. 313, pl. vi. fig. 26 (1854).

*Hab.* Aix-la-Chapelle.

93. *Nematus flavicomus*.

*Nematus flavicomus*, *Tischb. Stett. ent. Zeit.* vii. p. 77 (1846).

*Hab.* Lübeck.

94. *Nematus retusus*.

*Nematus retusus*, *Thoms. Hym. Scand.* i. p. 109 (1871).

*Hab.* Sweden.

95. *Nematus propinquus*.

*Nematus propinquus*, *Dahlb. Clavis Hym.* p. 25, n. 24 (1835), larva only.

*Nematus cæruleocarpus*, *Hart. Blattw.* p. 187 (1837); *Vollenh. Tijdschr. Ent.* i. p. 148, pl. vi. (1858).

*Nematus brachyacanthus*, *Thoms. Öfv. Vet.-Akad. Förh.* xix. p. 629, n. 34 (1871).

*Nematus brevispinus*, *Först. Verh. Ver. Rheinl.* xi. p. 338, pl. vi. fig. 45 (1854).

*Hab.* Europe.

*a-h.* ♂ ♀.  
*i.* ♂.  
*k-n.*

Britain.  
Britain.  
Germany.

J. F. Stephens.  
J. F. Ruthe.

96. *Nematus gelidus*.

(Plate VII. fig. 10.)

Exp. al. 8 lin., long. corp. 4 lin.

Deep black, shining; sides of pectus punctuated and dull; (vertex, prothorax, and front and back of the sides of pectus dusted

with pollen in the type.) Legs testaceous; coxæ, trochanters, and basal half of the femora beneath black. Nervures brown; costa and stigma pale yellow.

Described from one male specimen, ticketed "*N. crassus*, Fall.;" but this species is described as having a black stigma, not to mention other differences.

*Hab.* Spitzbergen.

*a.* ♂. (Type of species.)

Spitzbergen.

Rev. A. E. Eaton.

#### 97. *Nematus crassus*.

*Tenthredo crassa*, Fall. *Vetensk. Handl.* xxix. p. 106, n. 41 (1808).

*Nematus crassus*, Thoms. *Öfv. Vet.-Akad. Förh.* xix. p. 629, n. 33

(1862); *id.* *Hym. Scand.* i. p. 123 (1871).

*Nematus vicinus*, St.-Farg. *Mon. Tenth.* p. 66, n. 197 (1823).

*Nematus sulcipes*, Hart. *Blattw.* p. 186 (1837).

*Hab.* Europe.

#### 98. *Nematus wahlbergi*.

*Nematus wahlbergi*, Thoms. *Hym. Scand.* i. p. 125 (1871).

*Hab.* Sweden.

#### 99. *Nematus fennicus*.

*Nematus fennicus*, André, *Hym.* i. p. 133 (1880).

*Hab.* Finland.

#### 100. *Nematus zetterstedtii*.

*Nematus zetterstedtii*, Dahlb. *Clavis Hym.* fig. 5 (1835); Thoms. *Hym. Scand.* i. p. 147 (1871).

*Nematus miniatus*, Hart. *Blattw.* p. 189 (1837).

*Hab.* Europe.

*a.* ♀.

Britain.

#### 101. *Nematus flavipennis*.

*Nematus flavipennis*, Cameron, *Ent. M. Mag.* xii. p. 189 (1876).

*Hab.* Scotland.

#### 102. *Nematus faustus*.

*Nematus faustus*, Hart. *Blattw.* p. 189 (1837).

*Hab.* Europe.

*a, b.* ♀.

Germany.

J. F. Ruthe.

#### 103. *Nematus pallipes*.

*Tenthredo pallipes*, Fallén, *Vetensk. Handl.* xxix. p. 110, n. 48 (1808).

*Nematus pallipes*, *Thoms. Œfv. Vet.-Akad. Förh.* xix. p. 621, n. 15 (1862); *id. Hym. Scand.* i. p. 97 (1871).

*Hab.* Scandinavia.

#### 104. *Nematus carinatus*.

*Nematus carinatus*, *Hart. Blattw.* p. 199 (1837).

*Hab.* Harz, Tyrol.

#### 105. *Nematus alpinus*.

*Nematus alpinus*, *Thoms. Hym. Scand.* i. p. 98 (1871).

*Hab.* Sweden, Germany.

*a.* ♀. Germany. J. F. Ruthe.

#### 106. *Nematus mollis*.

*Nematus mollis*, *Hart. Blattw.* p. 201 (1837); *Thoms. Hym. Scand.* i. p. 98 (1871).

*Tenthredo lapponica*, *Zett. Ins. Lapp.* p. 350, n. 44 (1838).

*Hab.* Europe.

*a-h.* ♂ ♀. Germany. J. F. Ruthe.

#### 107. *Nematus melanocarpus*.

*Nematus melanocarpus*, *Hart. Stett. ent. Zeit.* i. p. 27, n. 73 (1840).

*Hab.* Germany.

*a.* ♀. Germany. J. F. Ruthe.

#### 108. *Nematus leucopodius*.

*Nematus leucopodius*, *Hart. Blattw.* p. 200 (1837).

*Hab.* Central Europe.

*a-d.* ♀. Britain. J. F. Stephens.

#### 109. *Nematus staudingeri*.

*Nematus staudingeri*, *Ruthe, Stett. ent. Zeit.* xx. p. 306 (1859).

*Hab.* Iceland.

#### 110. *Nematus squalidus*.

*Nematus squalidus*, *Eversm. Bull. Mosc.* xx. p. 21, n. 26 (1847).

*Hab.* Kasan.

111. *Nematus suavis*.

*Nematus suavis*, *Ruthe, Stett. ent. Zeit.* xx. p. 308 (1859).

*Hab.* Iceland.

112. *Nematus bicolor*.

*Nematus bicolor*, *St.-Farg. Mon. Tenth.* p. 62, n. 181 (1823).

*Hab.* France.

113. *Nematus leucapsis*.

*Nematus leucapsis*, *Tischb. Stett. ent. Zeit.* vii. p. 77 (1846); *André, Hym.* i. p. 130 (1880).

*Hab.* Lübeck.

114. *Nematus lativentris*.

*Nematus lativentris*, *Thoms. Hym. Scand.* i. p. 99 (1871).

*Nematus whitei*, *Cameron, Proc. N. H. Soc. Glasg.* iii.; *Faun. Scot. Hym.* i. p. 25, n. 29 (1878).

*Hab.* Scotland, Germany, Sweden.

*a, b.* ♂.

Germany.

J. F. Ruthe.

115. *Nematus albilabris*.

*Nematus albilabris*, *Thoms. Öfv. Vet.-Akad. Förh.* xix. p. 622, n. 17 (1862); *Hym. Scand.* i. p. 100 (1871).

*Hab.* Sweden.

116. *Nematus parvicornis*.

*Nematus parvicornis*, *Thoms. (nec Först.) Öfv. Vet.-Akad. Förh.* xix. p. 622, n. 18 (1862); *id. Hym. Scand.* i. p. 100 (1871).

*Hab.* Sweden.

117. *Nematus rufipes*.

*Pristiphora rufipes*, *St.-Farg. Mon. Tenth.* p. 60, n. 174 (1823).

*Hab.* France.

118. *Nematus tischbeini*.

*Nematus tischbeini*, *André, Hym.* i. p. 120 (1880).

*Nematus rufipes*, *Tischb. Stett. ent. Zeit.* vii. p. 77 (1846).

*Hab.* Germany.

119. *Nematus oblitus*.

*Nematus oblitus*, *St.-Farg. Mon. Tenth.* p. 69, n. 209 (1823).

*Hab.* England, France.

*a.* ♀.

Britain.

J. F. Stephens.

120. *Nematus fuscus*.

*Pristiphora fusca*, *St.-Farg. Mon. Tenth.* p. 60, n. 175 (1823).

*Hab.* France.

121. *Nematus deficiens*.

*Nematus deficiens*, *Först. Verh. Ver. Rheinl.* xi. p. 318, pl. vi. fig. 30 (1854).

*Hab.* Aix-la-Chapelle.

122. *Nematus pleurostictus*.

*Nematus pleurostictus*, *Först. Verh. Ver. Rheinl.* xi. p. 432 (1854).

*Hab.* Aix-la-Chapelle.

123. *Nematus fulvipes*.

*Tenthredo fulvipes*, *Fall. Vetensk. Handl.* xxix. p. 113, n. 51 (1808).

*Nematus fulvipes*, *Thoms. Öfv. Vet.-Akad. Förh.* xix. p. 113, n. 51 (1862); *id. Hym. Scand.* i. p. 90 (1871).

*Nematus brevis*, *Hart. Blattw.* p. 205 (1837).

*Nematus aphantoneurus*, *Först. Verh. Ver. Rheinl.* xi. p. 323, pl. vi. fig. 35 (1854).

*Hab.* Europe.

|                |          |                 |
|----------------|----------|-----------------|
| <i>a.</i> ♀.   | Britain. | J. F. Stephens. |
| <i>b-f.</i> ♀. | Germany. | J. F. Ruthe.    |
| <i>g.</i> ♂.   | Sweden.  |                 |

124. *Nematus suessionensis*.

*Nematus suessionensis*, *St.-Farg. Mon. Tenth.* p. 66, n. 196 (1823).

*Hab.* France.

125. *Nematus hibernicus*.

*Nematus hibernicus*, *Cameron, Ent. M. Mag.* xiv. p. 225 (1878).

*Hab.* Dublin.

126. *Nematus peletieri*.

*Nematus peletieri*, *André, Hym.* i. p. 111 (1880).

*Pristiphora pallipes*, *St.-Farg. (nec Fall.) Mon. Tenth.* p. 60, n. 173 (1823).

*Hab.* Paris.

127. *Nematus klugii*.

*Nematus klugii*, *Gimm. Stett. ent. Zeit.* v. p. 37 (1844).

*Hab.* Riga.

128. *Nematus frigidus*.

*Nematus frigidus*, *Bohem. Œfv. Vet.-Akad. Förh.* xxii. p. 568 (1865).

*Hab.* Spitzbergen.

*a-d.* ♂ ♀.

Spitzbergen.

Rev. A. E. Eaton.

129. *Nematus crassicornis*.

*Nematus crassicornis*, *Hart. Blattw.* p. 204 (1837).

*Nematus armatus*, *Thoms. Œfv. Vet.-Akad. Förh.* xix. p. 619, n. 11 (1862); *id. Hym. Scand.* i. p. 93 (1871).

*Hab.* Europe.

*a.* ♀.

Germany.

J. F. Ruthe.

130. *Nematus compressicornis*.

*Tenthredo compressicornis*, *Fabr. Syst. Piez.* p. 38, n. 46 (1804).

*Nematus platycerus*, *Hart. Stett. ent. Zeit.* i. p. 27, n. 81 (1840).

*Nematus vallator*, *Vollenh. Tijdschr. Ent.* i. p. 191, pl. xii. (1858).

*Hab.* Europe.

*a.* ♂.

Germany.

J. F. Ruthe.

*b.* ♂.

Holland?

131. *Nematus cebrionicornis*.

*Nematus cebrionicornis*, *Costa, Faun. Nap., Tentr.* p. 20, pl. lxiv. fig. 4 (1859).

*Nematus callicerus*, *Thoms. Œfv. Vet.-Akad. Förh.* xix. p. 619, n. 12 (1862); *id. Hym. Scand.* i. p. 94 (1871).

*Hab.* Europe.

132. *Nematus appendiculatus*.

*Nematus appendiculatus*, *Hart. Blattw.* p. 202 (1837).

*Nematus cathoraticus*, *Först. Verh. Ver. Rheinl.* xi. p. 325, pl. vi. fig. 36 (1854).

*Hab.* Europe.

*a.* ♀.

Britain.

J. F. Stephens.

*b.* ♀.

Germany.

J. F. Ruthe.

133. *Nematus ruficollis*.

*Nematus ruficollis*, *Hart. Stett. ent. Zeit.* i. p. 27, n. 75 (1840).

*Hab.* Germany.

134. *Nematus laricis*.

*Nematus laricis*, *Hart. Blattw.* p. 203 (1837).

*Hab.* Central Europe.

*a-t.* ♂ ♀.

Germany.

J. F. Ruthe.

135. *Nematus amphibolus*.

*Nematus amphibolus*, *Först. Verh. Ver. Rheinl.* xi. p. 329, pl. vi. fig. 39 (1854).

*Hab.* Aix-la-Chapelle.

136. *Nematus alnivorus*.

*Nematus alnivorus*, *Hart. Stett. ent. Zeit.* i. p. 27, n. 80 (1840);  
*Cameron, Ent. M. Mag.* xi. p. 107 (1874).

*Hab.* Scotland, Germany.

*a-e.* ♀.

Germany.

J. F. Ruthe.

137. *Nematus emarginatus*.

*Nematus emarginatus*, *André, Hym.* i. p. 119 (1880).

*Hab.* South France.

138. *Nematus coactulus*.

*Nematus coactulus*, *Ruthe, Stett. ent. Zeit.* xx. p. 307 (1859).

*Hab.* Iceland.

139. *Nematus puncticeps*.

*Nematus puncticeps*, *Thoms. Öfv. Vet.-Akad. Förh.* xix. p. 619, n. 10 (1862); *id. Hym. Scand.* i. p. 92 (1871).

*Hab.* Sweden.

140. *Nematus selandrioides*.

*Nematus selandrioides*, *Costa, Faun. Nap., Tentr.* p. 21, pl. lxiv. fig. 6 (1859).

*Hab.* Naples.

141. *Nematus ruficornis*.

*Nematus ruficornis*, *Oliv. Enc. Méth.* viii. p. 167, n. 9 (1811).

*Pristiphora testaceicornis*, *St.-Farg. Mon. Tenth.* p. 60, n. 172 (1823).

*Nematus fraxini*, *Hart. Blattw.* p. 204 (1837).

*Hab.* Europe.

|  |          |                 |
|--|----------|-----------------|
| <i>a-k.</i> ♂ ♀.                             | Britain. | J. F. Stephens. |
| <i>l.</i> ♀. (As <i>N. proximus</i> .)       | Britain. | J. F. Stephens. |
| <i>m.</i> ♀. (As <i>N. testaceicornis</i> .) | Britain. | J. F. Stephens. |
| <i>n.</i> ♂.                                 | Germany. | J. F. Ruthe.    |

142. *Nematus lepidus*.

*Nematus lepidus*, Först. *Verh. Ver. Rheinl.* xi. p. 345, pl. vi. fig. 50 (1854).

*Hab.* Aix-la-Chapelle.

143. *Nematus congruens*.

*Nematus congruens*, Först. *Verh. Ver. Rheinl.* xi. p. 346, pl. vi. fig. 51 (1854).

*Hab.* Aix-la-Chapelle.

144. *Nematus aquilegiæ*.

*Nematus aquilegiæ*, Vollenh. *Tijdschr. Ent.* ix. p. 202, pl. ix. (1866).

*Hab.* Holland.

145. *Nematus funerulus*.

*Nematus funerulus*, Costa, *Faun. Nap., Tentr.* p. 20, pl. lxiv. fig. 5 (1859).

*Hab.* Britain; Italy.

|                |          |                 |
|----------------|----------|-----------------|
| <i>a-c.</i> ♀. | Britain. | J. F. Stephens. |
|----------------|----------|-----------------|

146. *Nematus dochmocerus*.

*Nematus dochmocerus*, Thoms. *Hym. Scand.* i. p. 93 (1871).

*Hab.* Scotland; Sweden.

147. *Nematus albitibia*.

*Nematus albitibia*, Costa, *Faun. Nap., Tentr.* p. 21 (1859).

*Hab.* Naples.

148. *Nematus abbreviatus*.

*Nematus abbreviatus*, Hart. *Blattw.* p. 205 (1837).

*Hab.* Germany.

149. *Nematus vitreipennis*.

*Nematus vitreipennis*, Kawall, *Bull. Mosc.* xxxvii. (1) p. 295 (1864).

*Hab.* Kasan.



150. *Nematus microphyes*.

*Nematus microphyes*, *Först. Verh. Ver. Rheinl.* xi. p. 344, pl. vi. fig. 49 (1854).

*Hab.* Aix-la-Chapelle.

151. *Nematus leucostictus*.

*Nematus leucostictus*, *Hart. Blattw.* p. 202 (1837).

*Nematus erythropygus*, *Först. Verh. Ver. Rheinl.* xi. p. 309, pl. v. fig. 23 (1854).

*Nematus crassulus*, *Thoms. Öfv. Vet.-Akad. Förh.* xix. p. 630, n. 37 (1862); *id. Hym. Scand.* i. p. 157 (1871).

*Hab.* Europe.

|                  |          |                 |
|------------------|----------|-----------------|
| <i>a-e.</i> ♀.   | Britain. | J. F. Stephens. |
| <i>f-l.</i> ♂ ♀. | Germany. | J. F. Ruthe.    |

152. *Nematus xanthogaster*.

*Nematus xanthogaster*, *Först. Verh. Ver. Rheinl.* xi. p. 315, pl. vi. fig. 28 (1854).

*Nematus piliserra*, *Thoms. Öfv. Vet.-Akad. Förh.* xix. p. 616, n. 6 (1862); *id. Hym. Scand.* i. p. 88 (1871).

*Hab.* Europe.

|                  |          |              |
|------------------|----------|--------------|
| <i>a-r.</i> ♂ ♀. | Germany. | J. F. Ruthe. |
|------------------|----------|--------------|

153. *Nematus ochropus*.

*Nematus ochropus*, *Thoms. Öfv. Vet.-Akad. Förh.* xix. p. 617, n. 6 (1862); *id. Hym. Scand.* i. p. 89 (1871).

*Hab.* Sweden.

154. *Nematus rubidicornis*.

*Nematus rubidicornis*, *André, Hym.* i. p. 146 (1880).

*Hab.* Jura.

155. *Nematus leucocarpus*.

*Nematus leucocarpus*, *André, Hym.* i. p. 145 (1880).

*Hab.* Valais.

156. *Nematus dissimilis*.

*Nematus dissimilis*, *Först. Verh. Ver. Rheinl.* xi. p. 314, pl. vi. fig. 27 (1854).

*Hab.* Aix-la-Chapelle.

157. *Nematus leucogaster*.

*Nematus leucogaster*, *Hart. Stett. ent. Zeit.* i. p. 23, n. 19 (1840).

*Hab.* Germany.

158. *Nematus abdominalis*.

*Tenthredo abdominalis*, *Fabr. Ent. Syst. Suppl.* p. 216 (1798); *Panz. Faun. Germ.* Heft 64, pl. iii. (1799).

*Nematus abdominalis*, *Zadd. Schrift. Königsb.* xvi. p. 48 (1876).

*Tenthredo ventralis*, *Panz. Faun. Germ.* Heft 64, pl. iv. (1799).

*Nematus ventralis*, *Hart. Blattw.* p. 192 (1837); *Costa, Faun. Nap., Tentr.* p. 15, pl. lxiii. fig. 7 (1859).

*Nematus fuscipennis*, *St.-Farg. Mon. Tenth.* p. 68, n. 204 (1823); *Faun. Franç.* p. 70, n. 24; *Steph. Ill. Brit. Ent., Mand.* vii. p. 35, n. 35 (1835).

*Nematus gravenhorstii*, *Gimm. Bull. Mosc.* ix. p. 432 (1836).

*Hab.* Europe.

a. ♀.

Britain.

J. F. Stephens.

b. ♀.

Britain.

c-x. ♂ ♀.

Germany.

J. F. Ruthe.

159. *Nematus xanthocerus*.

*Nematus xanthocerus*, *Hart. Stett. ent. Zeit.* i. p. 23, n. 25 (1840).

*Hab.* Germany.

160. *Nematus contractus*.

*Nematus contractus*, *Eversm. Bull. Mosc.* xx. p. 20 (1847).

*Hab.* South Russia.

161. *Nematus marshalli*.

*Nematus marshalli*, *Cameron, Ent. M. Mag.* xii. p. 9 (1875).

*Hab.* Corsica.

162. *Nematus antennatus*.

*Nematus antennatus*, *Cameron, Ent. M. Mag.* xiv. p. 58 (1877).

*Hab.* Scotland.

163. *Nematus ruficapillus*.

*Tenthredo ruficapilla*, *Gmel. Syst. Nat.* i. (5) p. 2668, n. 138 (1789).

*Tenthredo lutea*, *Fabr. Syst. Piez.* p. 41, n. 58 (1804).

*Nematus luteus*, *Panz. Faun. Germ.* Heft 90, pl. x. (1805); *Costa, Faun. Nap., Tentr.* p. 19, pl. lxiv. fig. 3 (1859); *Zadd. Schrift. Königsb.* xvi. p. 50 (1876).

*Nematus lutea*, *Hart. Blattw.* p. 195 (1837).

? *Tenthredo bimaculata*, *Gmel. Syst. Nat.* i. pl. v. p. 2667, n. 131 (1789).

*Hab.* Europe.

|         |          |                 |
|---------|----------|-----------------|
| a. ♀.   | Britain. | J. F. Stephens. |
| b. ♀.   | Britain. |                 |
| c-s. ♀. | Germany. | J. F. Ruthe.    |

#### 164. *Nematus flavicans.*

*Nematus flavus*, *Gimm. Stett. ent. Zeit.* v. p. 36 (1844).

*Hab.* Riga.

#### 165. *Nematus nigriceps.*

*Nematus nigriceps*, *Hart. Stett. ent. Zeit.* i. p. 24 (1840).

*Hab.* Germany.

#### 166. *Nematus xanthobaptus.*

*Nematus xanthobaptus*, *Först. Verh. Ver. Rheinl.* xi. p. 430 (1854).

*Hab.* Cologne.

#### 167. *Nematus flavescens.*

(Plate VII. fig. 9.)

*Nematus flavescens*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 29, n. 10 (1835).

*Nematus testaceus*, *Thoms. Hym. Scand.* i. p. 153 (1871).

Exp. al. 3 lin., long. corp. 6 lin.

Wholly pale testaceous yellow, thorax and hinder part of pectus darker; eyes and ocelli black, tips of mandibles deep brownish red. Wings clear hyaline, nervures piceous; costa and stigma clear yellow.

*Hab.* England; Sweden.

|                          |          |                 |
|--------------------------|----------|-----------------|
| a. ♀. (Type of species.) | England. | J. F. Stephens. |
|--------------------------|----------|-----------------|

#### 168. *Nematus bilineatus.*

*Tenthredo bilineata*, *Klug, Wiedem. Zool. Mag.* i. pt. 3, p. 86 (1819).

*Nematus bilineatus*, *Zadd. Schrift. Königsb.* xvi. p. 51 (1876).

*Nematus luteus*, *Thoms. Öfv. Vet.-Akad. Förh.* xix. p. 632, n. 41 (1862).

*Nematus klugii*, *Thoms. Hym. Scand.* i. p. 136 (1871).

? *Nematus testaceus*\*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 29 (1835).

*Nematus dorsalis*, *St.-Farg. Mon. Tenth.* p. 70, n. 213 (1823).

*Hab.* Northern and Central Europe.

|           |          |                 |
|-----------|----------|-----------------|
| a-c. ♀.   | Britain. | J. F. Stephens. |
| d-s. ♂ ♀. | Germany. | J. F. Ruthe.    |

\* The supposed types agree with *N. bilineatus*; but if they really represent Stephens's insect, his description is so imperfect as to be worthless.

169. *Nematus acuminatus*.

*Nematus acuminatus*, *Thoms. Hym. Scand.* i. p. 138 (1871); *Zadd. Schrift. Königsb.* xvi. p. 52 (1876).

*Hab.* Sweden.

170. *Nematus melanopsis* \*.

*Nematus melanopsis*, *St.-Farg. Mon. Tenth.* p. 71, n. 215 (1823).

*Hab.* Paris.

171. *Nematus dorsatus*.

*Nematus dorsatus*, *Cameron, Ent. M. Mag.* xii. p. 129 (1875);  
*id. Proc. N. H. Soc. Glasg.* ii. p. 291 (1876).

*Hab.* Britain.

|                 |           |                  |
|-----------------|-----------|------------------|
| <i>a, b.</i> ♀. | Britain.  | J. F. Stephens.  |
| <i>c.</i> ♀.    | Britain.  |                  |
| <i>d.</i> ♀.    | Scotland. | P. Cameron, Esq. |

172. *Nematus inflatus*.

*Nematus inflatus*, *Thoms. Hym. Scand.* i. p. 139 (1871).

*Nematus salicis*, *Hart. Blattw.* p. 194 (1837).

*Nematus flaviventris*, *Hart. Stett. ent. Zeit.* i. p. 24 (1840).

*Hab.* Britain.

|                  |          |                 |
|------------------|----------|-----------------|
| <i>a-h.</i> ♂ ♀. | Britain. | J. F. Stephens. |
| <i>i-p.</i> ♂ ♀. | Germany. | J. F. Ruthe.    |

173. *Nematus notatus*.

*Nematus notatus*, *Först. Verh. Ver. Rheinh.* xi. p. 298, pl. v. fig. 15 (1854).

*Hab.* Aix-la-Chapelle.

174. *Nematus gracilis*.

*Nematus gracilis*, *Gimm. Bull. Mosc.* vii. p. 122 (1834).

*Hab.* Livonia.

175. *Nematus griseus*.

*Nematus griseus*, *Eversm. Bull. Mosc.* xx. p. 18, n. 18 (1847).

*Hab.* Kasan.

---

\* This species is represented in the British collection by *N. dorsatus*, Cam. (compare *Ent. M. Mag.* xii. p. 129, xiii. p. 174); but in that species the vertex is not black, as should be the case in *N. melanopsis*.

176. *Nematus continuus*.

*Nematus continuus*, *Eversm. Bull. Mosc.* xx. p. 19, n. 20 (1847).

*Hab.* Kasan.

177. *Nematus perspicillaris*.

*Nematus perspicillaris*, *Hart. Stett. ent. Zeit.* i. p. 24 (1840); *Ratz. Forst-Insekt.* iii. p. 126, pl. iii. fig. 5 (1844).

*Hab.* Germany.

178. *Nematus approximatus*.

*Nematus approximatus*, *Först. Verh. Ver. Rheinl.* xi. p. 320, pl. vi. fig. 32 (1854).

*Hab.* Aix-la-Chapelle.

179. *Nematus immaculatus*.

*Nematus immaculatus*, *Vollenh. Tijdschr. Ent.* xii. p. 119 (1869).

*Hab.* Holland.

180. *Nematus salicis*.

*Tenthredo salicis*, *De Geer, Mém. Ins.* ii. pt. 2, p. 991, n. 14, pl. xxxvii. figs. 12-22 (1771).

*Nematus salicis*, *Thoms. Hym. Scand.* i. p. 141 (1871).

*Hab.* Sweden.

181. *Nematus hartigii*.

*Nematus betulæ*, *Hart. Blattw.* p. 219 (1837); *Vollenh. Tijdschr. Ent.* vii. p. 70, pl. iii. (1864).

*Hab.* Europe.

182. *Nematus umbratus*.

*Nematus umbratus*, *Thoms. Hym. Scand.* i. p. 142 (1871).

*Nematus ribesii*, var. *b*, *Thoms. Öfv. Vet.-Akad. Förh.* xix. p. 634, n. 44 (1862).

*Hab.* Sweden, Lapland.

183. *Nematus bohemani*.

*Nematus bohemani*, *Thoms. Hym. Scand.* i. p. 143 (1871).

*Nematus ribesii*, var. *c*, *Thoms. Öfv. Vet.-Akad. Förh.* xix. p. 634, n. 4 (1862).

*Hab.* Sweden, Lapland.

184. *Nematus ribesii*.

*Tenthredo ribesii*, *Scop. Ent. Carn.* p. 280 (1763).

*Nematus ribesii*, *Thoms. Öfv. Vet.-Akad. Förh.* xix. p. 634 (1862);  
*id. Hym. Scand.* i. p. 143 (1871).

*Selandria ribis*, *Winchell, Amer. J. Sci.* xxxviii. p. 291 (1864).

*Tenthredo salicis*, *Fallén, Vetensk. Handl.* xxix. p. 118, n. 60 (1808).

*Nematus ventricosus*, *Hart. Blattw.* p. 196 (1837).

*Nematus trimaculatus*, *St.-Farg. Mon. Tenth.* p. 69, n. 207 (1823).

*Nematus grossulariæ*, *Fisch. Mag. Zool., Ins.* pl. lxxii. text, p. 2 (1846).

*Hab.* Europe.

|                        |             |                 |
|------------------------|-------------|-----------------|
| <i>a-r.</i> ♂ ♀.       | Britain.    | J. F. Stephens. |
| <i>s-u.</i> ♂ ♀.       | Perthshire. | J. Foxcroft.    |
| <i>v.</i> (Pupa-case.) | Perthshire. | J. Foxcroft.    |
| <i>w-aa.</i> ♀.        | Germany.    | J. F. Ruthe.    |

185. *Nematus hortensis*.

*Nematus hortensis*, *Thoms. (nec Hart.) Hym. Scand.* i. p. 144, n. 74 (1871).

*Hab.* Lund.

186. *Nematus melanurus*.

*Nematus melanurus*, *Hart. Stett. ent. Zeit.* i. p. 24, n. 38 (1840).

*Hab.* Germany.

187. *Nematus cylindricus*.

*Nematus cylindricus*, *Hart. Stett. ent. Zeit.* i. p. 24, n. 39 (1840).

*Nematus quietus*, *Eversm. Bull. Mosc.* xx. p. 17 (1847).

*Hab.* Germany; S. Russia.

188. *Nematus bipartitus*.

*Nematus bipartitus*, *St.-Farg. Mon. Tenth.* p. 69, n. 206 (1823).

*Nematus depressus*, *Hart. Stett. ent. Zeit.* i. p. 24, n. 40 (1840).

*Hab.* Paris.

189. *Nematus flavipes*.

*Nematus flavipes*, *Hart. Stett. ent. Zeit.* i. p. 24, n. 41 (1840).

*Hab.* Germany.

190. *Nematus posticus*.

*Nematus posticus*, *Först. Verh. Ver. Rheinl.* xi. p. 349 (1854).

*Hab.* Aix-la-Chapelle.

191. *Nematus semiorbitalis*.

*Nematus semiorbitalis*, *Först. Verh. Ver. Rheinl.* xi. p. 288, pl. iii. fig. 8 (1854).

*Hab.* Aix-la-Chapelle.

192. *Nematus simulator*.

*Nematus simulator*, *Först. Verh. Ver. Rheinl.* xi. p. 321, pl. vi. fig. 33 (1854).

*Hab.* Aix-la-Chapelle.

193. *Nematus consobrinus*.

*Nematus consobrinus*, *Vollenh. Tijdschr. Ent.* xvi. p. 236, pl. x. figs. 1-13 (1871).

*Hab.* Holland.

194. *Nematus tibialis*.

*Nematus tibialis*, *Newm. Ent. Mag.* iv. p. 260 (Jan. 1837).

*Nematus hortensis*, *Hart. Blattw.* p. 197 (1837); *Vollenh. Tijdschr. Ent.* i. p. 151, pl. vii. (1858).

*Hab.* Europe.

|           |          |                 |
|-----------|----------|-----------------|
| a. ♀.     | Britain. | J. F. Stephens. |
| b-r. ♂ ♀. | Germany. | J. F. Ruthe.    |

195. *Nematus ephippiger*.

*Nematus ephippiger*, *Hart. Stett. ent. Zeit.* i. p. 22, n. 43 (1840).

*Nematus brevisculus*, *Eversm. Bull. Mosc.* xx. p. 17 (1847).

*Hab.* Kasan.

196. *Nematus costæ*.

*Nematus hypoleucus*, *Costa (nec Först.), Faun. Nap., Tentr.* p. 17, pl. lxiv. fig. 1 (1859).

*Hab.* Naples.

197. *Nematus aurantiacus*.

*Nematus aurantiacus*, *Hart. Blattw.* p. 197 (1837).

*Hab.* Germany.

198. *Nematus papillosus*.

*Tenthredo papillosa*, *Retz. Gen. Spec. Ins.* p. 72, n. 306 (1783).

*Tenthredo myosotidis*, *Fabr. Syst. Piez.* p. 41, n. 60 (1804); *Panz. Faun. Germ.* Heft 98, pl. xliii. (1809).

*Nematus papillosus*, *Thoms. Hym. Scand.* i. p. 145 (1871).

*Nematus myosotidis*, *Hart. Blattw.* p. 199 (1837); *Först. Verh. Ver. Rheinl.* xi. p. 319, pl. vi. fig. 31 (1854); *Costa, Faun. Nap., Tentr.* p. 16, pl. xliii. fig. 8 (1859).

*Nematus interruptus*, *St.-Farg. Mon. Tenth.* p. 65, n. 191 (1823).

*Nematus ochraceus*, *Hart. Blattw.* p. 218 (1837).

? *Tenthredo melanorrhœa*, *Gmel. Syst. Nat.* i. pt. 5, p. 2668, n. 136 (1789).

*Hab.* Europe.

*a-n.* ♂ ♀.

Britain.

J. F. Stephens.

*o-t.* ♂ ♀.

Britain.

*u-eee.* ♂ ♀.

Germany.

J. F. Ruthe.

### 199. *Nematus* (?) *annalicornis*.

*Tenthredo annalicornis*, *Gmel. Syst. Nat.* i. pt. v. p. 2667, n. 133 (1789).

*Hab.* Europe.

### 200. *Nematus gemellus*.

*Nematus gemellus*, *Först. Verh. Ver. Rheinl.* xi. p. 425 (1854).

*Hab.* Aix-la-Chapelle.

### 201. *Nematus exoletus*.

*Nematus exoletus*, *Eversm. Bull. Mosc.* xx. p. 19, n. 19 (1847).

*Hab.* Ural.

### 202. *Nematus annulatus*.

*Nematus annulatus*, *Gimm. Bull. Mosc.* vii. p. 123 (1834).

*Hab.* Livonia.

### 203. *Nematus xanthocarpus*.

*Nematus xanthocarpus*, *Hart. Stett. ent. Zeit.* i. p. 23, n. 27 (1840).

*Hab.* Germany.

### 204. *Nematus melanocerus*.

*Nematus melanocerus*, *Hart. Stett. ent. Zeit.* i. p. 26, n. 69 (1840).

*Hab.* Germany.

### 205. *Nematus pygostolus*.

*Nematus pygostolus*, *Först. Verh. Ver. Rheinl.* xi. p. 431 (1854).

*Hab.* Aix-la-Chapelle.

### 206. *Nematus eupodius*.

*Nematus eupodius*, *Hart. Stett. ent. Zeit.* i. p. 26, n. 70 (1840).

*Hab.* Germany.



207. *Nematus testaceipes*.

*Nematus testaceipes*, *André, Hym. i. p. 144 (1880).*

*Hab.* Geneva.

208. *Nematus striatipes*.

*Nematus striatipes*, *Hart. Stett. ent. Zeit. i. p. 26, n. 71 (1840).*

*Hab.* Germany.

209. *Nematus lepidotus*.

*Nematus lepidotus*, *Hart. Stett. ent. Zeit. i. p. 26, n. 72 (1840).*

*Hab.* Germany.

210. *Nematus meridionalis*.

*Nematus meridionalis*, *André, Hym. i. p. 154 (1880).*

*Hab.* Pyrenees.

211. *Nematus infirmus*.

*Nematus infirmus*, *Först. Verh. Ver. Rheinl. xi. p. 316, pl. vi. fig. 29 (1854).*

*Hab.* Aix-la-Chapelle.

212. *Nematus luctuosus*.

*Nematus luctuosus*, *Först. Verh. Ver. Rheinl. xi. p. 342, pl. vi. fig. 48 (1854).*

*Hab.* Aix-la-Chapelle.

213. *Nematus declinatus*.

*Nematus declinatus*, *Först. Verh. Ver. Rheinl. xi. p. 348, pl. vi. fig. 52 (1854).*

*Hab.* Aix-la-Chapelle.

214. *Nematus microps*.

*Nematus microps*, *Först. Verh. Ver. Rheinl. xi. p. 421 (1854).*

*Hab.* Aix-la-Chapelle.

215. *Nematus emarginatus*.

*Nematus emarginatus*, *Först. Verh. Ver. Rheinl. xi. p. 424 (1854).*

*Hab.* Boppard on the Rhine.

216. *Nematus eversmanni*.

*Nematus eversmanni*, *Först. Verh. Ver. Rheinl.* xi. p. 423 (1854).

*Hab.* Germany, Russia.

217. *Nematus jugicola*.

*Nematus jugicola*, *Thoms. Hym. Scand.* i. p. 146 (1871).

*Hab.* Sweden.

218. *Nematus monticolus*.

*Nematus monticola*, *Thoms. Hym. Scand.* i. p. 147 (1871).

*Hab.* Sweden, Lapland.

219. *Nematus westermanni*.

*Nematus westermanni*, *Thoms. Öfv. Vet.-Akad. Förh.* xix. p. 615, n. 3 (1862); *id. Hym. Scand.* i. p. 87 (1871).

*Hab.* Sweden.

*a.* ♀.

Sweden.

220. *Nematus albipennis*.

*Nematus albipennis*, *Hart. Blattw.* p. 196 (1837); *Costa, Faun. Nap., Tentr.* p. 16, pl. lxiii. fig. 9 (1859).

*Hab.* Europe.

*a-d.* ♂ ♀.

Britain.

J. F. Stephens.

*e.* ♂.

Britain.

*f-i.* ♂ ♀.

Germany.

J. F. Ruthe.

221. *Nematus conjugatus*.

*Nematus conjugatus*, *Thoms. Öfv. Vet.-Akad. Förh.* xix. p. 623, n. 19 (1862); *id. Hym. Scand.* i. p. 101 (1871).

*Hab.* Sweden.

222. *Nematus luteogaster*.

*Nematus erythrogaster*, *Thoms. (nec Nort.) Hym. Scand.* i. p. 103 (1871).

*Hab.* Sweden.

223. *Nematus betulæ*.

*Tenthredo betulæ*, *Retz. Gen. Sp. Ins.* p. 72, n. 308 (1783).

*Nematus betulæ*, *Thoms. Hym. Scand.* i. p. 104 (1871).

*Hab.* Sweden.

224. *Nematus testaceus*.*Pteronus testaceus*, *Jur. Hym.* pl. xiii. (1807).*Nematus betularius*, *Hart. Blattw.* p. 192 (1837).*Hab.* Europe.*a-d.* ♀.

Britain.

J. F. Stephens.

225. *Nematus subbifidus*.*Nematus subbifidus*, *Thoms. Hym. Scand.* i. p. 105 (1871).*Hab.* Sweden.226. *Nematus bistriatus*.*Nematus bistriatus*, *Thoms. Hym. Scand.* i. p. 105 (1871).*Hab.* Sweden.227. *Nematus pavidus*.*Nematus pavidus*, *St.-Farg. Mon. Tenth.* p. 65, n. 191 (1823).*Nematus wttewaalli*, *Vollenh. Tijdschr. Ent.* v. p. 65, pl. iv. (1862).*Hab.* Europe.*a.* ♀.

Sweden.

228. *Nematus melanocephalus*.*Nematus melanocephalus*, *Hart. Blattw.* p. 219 (1837).*Hab.* Central Europe.*a.* ♀.

Britain.

229. *Nematus croceus*.*Tenthredo crocea*, *Fabr. Syst. Piez.* p. 39, n. 48 (1804); *Fallén, Vetensk. Handl.* xxix. p. 122, n. 65 (1808).*Nematus croceus*, *Thoms. (Efv. Vet.-Akad. Förh.* xix. p. 636, n. 48 (1862); *id. Hym. Scand.* i. p. 149 (1871).*Nematus fulvus*, *Hart. Blattw.* p. 194 (1837); *Costa, Faun. Nap., Tentr.* p. 18, pl. lxiv. fig. 2 (1859).*Nematus trimaculatus*, *Vollenh. Tijdschr. Ent.* v. p. 69, pl. iv. (1862).*Hab.* Europe.*a.* ♀.  
*b.* ♀.

Britain.

Sweden.

J. F. Stephens.

230. *Nematus dimidiatus*.*Nematus dimidiatus*, *St.-Farg. Mon. Tenth.* p. 68, n. 205 (1823).*Hab.* Paris.

231. *Nematus purus*.

*Nematus purus*, Först. *Verh. Ver. Rheinl.* xi. p. 278, pl. iv. fig. 1 A, B (1854).

*Hab.* South Westphalia.

232. *Nematus ferrugineus*.

*Nematus ferrugineus*, Först. *Verh. Ver. Rheinl.* xi. p. 282, pl. iv. fig. 4 (1854).

*Hab.* Liège.

233. *Nematus calderensis*.

*Nematus calderensis*, Cameron, *Ent. M. Mag.* xii. p. 127 (1875).

*Hab.* Scotland.

234. *Nematus miliaris*.

*Tenthredo miliaris*, Panz. *Faun. Germ.* Heft 45, pl. xiii. (1797).

*Tenthredo signata*, Fabr. *Spec. Ins.* i. p. 416, n. 54 (1781).

*Nematus viridis* et *gonymelas*, Steph. *Ill. Brit. Ent., Mand.* vii. pp. 30 & 34 (1835).

*Nematus prasinus*, Hart. *Blattw.* p. 216 (1837).

*Nematus bergmanni*, Dahlb. *Clavis Hym.* p. 24, n. 23 (1835); Thoms. *Hym. Scand.* i. p. 150 (1871).

*Nematus melanaspis*, Hart. *Stett. ent. Zeit.* i. p. 27, n. 86 (1840).

*Hab.* Europe.

*a-cc.* ♂ ♀.

*dd.* ♀. (Type of *N. viridis*.)

*ee.* ♀. (Type of *N. gonymelas*.)

*ff-oo.* ♀.

*pp-ddd.* ♀.

Britain.

Britain.

Britain.

Britain.

Germany.

J. F. Stephens.

J. F. Stephens.

J. F. Stephens.

J. F. Ruthe.

235. *Nematus brevivalvis*.

*Nematus brevivalvis*, Thoms. *Hym. Scand.* i. p. 151 (1871).

*Hab.* Scandinavia.

236. *Nematus microcercus*.

*Nematus microcercus*, Thoms. *Hym. Scand.* i. p. 152 (1871).

*Hab.* Sweden.

237. *Nematus curtispina*.

*Nematus curtispina*, Thoms. *Hym. Scand.* i. p. 152 (1871).

*Hab.* Sweden.

238. *Nematus diaphanus*.

*Nematus diaphanus*, *Eversm. Bull. Mosc.* xx. p. 19 (1847).

*Hab.* Orenburg.

239. *Nematus pallescens*.

*Nematus pallescens*, *Hart. Blattw.* p. 216 (1837).

*Hab.* Harz.

240. *Nematus oligospilus*.

*Nematus oligospilus*, *Först. Verh. Ver. Rheinl.* xi. p. 284, pl. iv. fig. 6 (1854).

*Hab.* Aix-la-Chapelle.

241. *Nematus virescens*.

*Nematus virescens*, *Hart. Blattw.* p. 217 (1837).

*Hab.* Central Europe.

a, b. ♀.  
c. ♀.

Germany.  
Europe.

J. F. Ruthe.

242. *Nematus pallicarpus*.

*Nematus pallicarpus*, *Hart. Stett. ent. Zeit.* i. p. 27, n. 85 (1840).

*Hab.* Germany.

243. *Nematus leucocarpus*.

*Nematus leucocarpus*, *Hart. Stett. ent. Zeit.* i. p. 27, n. 87 (1840).

*Hab.* Germany.

244. *Nematus polyspilus*.

*Nematus polyspilus*, *Först. Verh. Ver. Rheinl.* xi. p. 286, pl. iv. fig. 7 (1854).

*Hab.* Aix-la-Chapelle.

245. *Nematus scutellatus*.

*Nematus scutellatus*, *Hart. Blattw.* p. 214 (1837).

*Hab.* Germany.

246. *Nematus chrysogaster*.

*Nematus chrysogaster*, *Hart. Stett. ent. Zeit.* i. p. 27, n. 90 (1840).

*Hab.* Germany.

247. *Nematus palliatus*.

*Nematus palliatus*, *Thoms. Œfv. Vet.-Akad. Förh.* xix. p. 635, n. 45 (1862); *id. Hym. Scand.* i. p. 154 (1871).

*Hab.* Sweden.

248. *Nematus lacteus*.

*Nematus lacteus*, *Thoms. Hym. Scand.* i. p. 155 (1871).

*Hab.* Sweden.

249. *Nematus sharpi*.

*Nematus sharpi*, *Cameron, Ent. M. Mag.* xii. p. 181 (1876).

*Hab.* Scotland.

250. *Nematus vollenhoveni*.

*Nematus vollenhoveni*, *Cameron, Scot. Nat.* ii. p. 296 (1876).

*Hab.* Scotland.

251. *Nematus femoralis*.

*Nematus femoralis*, *Cameron, Proc. N. H. Soc. Glasg.* ii. p. 295 (1876).

*Hab.* Scotland.

252. *Nematus ischnocerus*.

*Nematus ischnocerus*, *Thoms. Œfv. Vet.-Akad. Förh.* xix. p. 638, n. 52 (1862); *id. Hym. Scand.* i. p. 159 (1871).

*Hab.* Germany, Sweden.

253. *Nematus puella*.

*Nematus puella*, *Thoms. Hym. Scand.* i. p. 160 (1871).

*Hab.* Scania.

254. *Nematus parvilabris*.

*Nematus parvilabris*, *Thoms. Œfv. Vet.-Akad. Förh.* xix. p. 638, n. 53 (1862); *id. Hym. Scand.* i. p. 160 (1871).

*Hab.* Sweden.

255. *Nematus salicis-cinereæ*.

*Tenthredo salicis-cinereæ*, *De Vill. Linn. Ent.* iii. p. 113, n. 89 (1789).

*Nematus gallarum*, *Hart. Blattw.* p. 220 (1837).

*Nematus æstivus*, *Thoms. Œfv. Vet.-Akad. Förh.* xix. p. 638, n. 51 (1862).

*Nematus intercus*, *Panz. (nec Linn.) Faun. Germ.* Heft 90, pl. xi. (1805).

*Nematus cinereæ*, *Thoms. Hym. Scand.* i. p. 160 (1871).

*Nematus saliceti*, *Först. Verh. Ver. Rheinl.* xi. p. 336 (1854).

*Nematus viminalis*, *Vollenh. Tijdschr. Ent.* ii. p. 147, pl. x. (1859).

*Hab.* Europe.

*a.* ♂.

Britain.

J. F. Stephens.

*b-i.* ♂ ♀.

Germany.

J. F. Ruthe.

### 256. *Nematus pedunculi*.

*Nematus pedunculi*, *Hart. Blattw.* p. 388 (1837).

*Hab.* Germany.

### 257. *Nematus nigritarsis*.

*Nematus nigritarsis*, *André, Spec. Hym.* i. p. 150 (1880).

*Hab.* South France.

### 258. *Nematus leucocnemis*.

*Nematus leucocnemis*, *Först. Verh. Ver. Rheinl.* xi. p. 433 (1854).

*Hab.* Aix-la-Chapelle.

### 259. *Nematus vesicator*.

*Nematus vesicator*, *Bremi, Stett. ent. Zeit.* x. p. 93 (1849).

*Hab.* Germany.

### 260. *Nematus helcinus*.

*Nematus helcinus*, *Dahlb. Stett. ent. Zeit.* xi. p. 409 (1850); *Thoms. Hym. Scand.* i. p. 162 (1871).

*Hab.* Danzig, Sweden.

### 261. *Nematus leptocerus*.

*Nematus leptocerus*, *Först. Verh. Ver. Rheinl.* xi. p. 289, pl. iv. fig. 9 (1854).

*Hab.* Aix-la-Chapelle.

### 262. *Nematus crassipes*.

*Nematus crassipes*, *Thoms. Hym. Scand.* i. p. 162 (1871).

*Hab.* Sweden.

### 263. *Nematus proximus*.

*Nematus vallisnerii*, *Hart. Blattw.* p. 205 (1837).

*Nematus gallicola*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 36, n. 39 (1835).

*Pontania gallicola*, *Costa, Atti Soc. Pontan. Nap.* vi. p. 281, pl. 1 (1854).

*Nematus proximus*, *St.-Farg. Mon. Tenth.* p. 67, n. 201 (1823).

*Nematus redi*, *Contar. Memor. dell' Istit. Venet.* iv. p. 115, pl. i. (1852).

? *Tenthredo exalbida*, *Gmel. Syst. Nat.* i. pt. v. p. 2667, n. 122 (1789).

*Pontania vallisnerii*, *Costa, Faun. Nap., Tentr.* p. 24, pl. lxv. fig. 3 (1859).

*Hab.* Europe.

|                |                                 |                   |                 |
|----------------|---------------------------------|-------------------|-----------------|
| <i>a-c.</i> ♀. | (Types of <i>N. gallicola</i> ) | Britain.          | J. F. Stephens. |
| <i>d-f.</i> ♀. |                                 | *Britain.         | J. F. Stephens. |
| <i>g-k.</i> ♀. |                                 | London District*. | F. Smith, Esq.  |
| <i>l-t.</i> ♀. |                                 | Germany.          | J. F. Ruthe.    |

#### 264. *Nematus albicarpus*.

*Nematus albicarpus*, *Costa, Faun. Nap., Tentr.* p. 22, pl. lxv. fig. 1 (1859).

*Hab.* Europe.

|              |          |                 |
|--------------|----------|-----------------|
| <i>a.</i> ♀. | Britain. | J. F. Stephens. |
| <i>b.</i> ♀. | Germany. | J. F. Ruthe.    |

#### 265. *Nematus lugdunensis*.

*Nematus lugdunensis*, *Vollenh. Tijdschr. Ent.* xiv. p. 243, pl. xi. figs. 1-10 (1871).

*Hab.* Holland.

#### 266. *Nematus viminalis*.

*Nematus viminalis*, *Hart. Stett. ent. Zeit.* i. p. 20, n. 66 (1840).

*Hab.* Germany.

#### 267. *Nematus alienatus*.

(Plate VII. fig. 13.)

*Nematus alienatus*, *Först. Verh. Ver. Rheinh.* xi. p. 334, pl. vii. fig. 43 (1854).

*Nematus anglicus*, *Cameron, Ent. M. Mag.* xiii. p. 173 (1877).

Exp. al. 4 lin., long. corp. 2 lin.

Black, shining; face, shoulders, tegulæ, and legs pale testaceous; hind femora black in the middle; tips of hind tibiæ and hind tarsi black; head a little testaceous behind the eyes; hind tarsi about as long as the tibiæ; antennæ slender, nearly as long as the body, third joint scarcely longer than fourth. Wings clear hyaline, with brown nervures; stigma white, smoky yellow on the outside.

\* "Bred from the bean-shaped galls on the leaves of the willow."—*MS. note.*



This species stands in the British collection as *Euura gallæ*, Newm.; but it differs from Newman's description both generically and specifically, for it has four submarginal cells instead of three, and the legs are not entirely pale.

*Hab.* England ; Germany.

*a, b.* ♀. (Types of *N. anglicus*.)      England.      J. F. Stephens.

268. *Nematus acerosum*.

*Nematus acerosum*, *Hart. Stett. ent. Zeit.* i. p. 26, n. 67. (1840).

*Hab.* Germany.

269. *Nematus collectaneus*.

*Nematus collectaneus*, *Först. Verh. Ver. Rheinl.* xi. p. 299, pl. v. fig. 16 (1854).

*Hab.* Crefeld.

270. *Nematus nigellus*.

*Nematus nigellus*, *Först. Verh. Ver. Rheinl.* xi. p. 328, pl. vi. fig. 38 (1854).

*Hab.* Aix-la-Chapelle.

271. *Nematus pullus*.

*Nematus pullus*, *Först. Verh. Ver. Rheinl.* xi. p. 330, pl. xi. fig. 40 (1854).

*Hab.* Aix-la-Chapelle.

272. *Nematus striatipes*.

*Nematus striatipes*, *Hart. Stett. ent. Zeit.* 1840, p. 26, n. 71 (1840).

*Hab.* Germany.

273. *Nematus occultus*.

*Nematus occultus*, *Först. Verh. Ver. Rheinl.* xi. p. 331, pl. vii. fig. 41 (1854).

*Hab.* Aix-la-Chapelle.

274. *Nematus dolichurus*.

*Nematus dolichurus*, *Thoms. Hym. Scand.* i. p. 164, n. 98 (1871).

*Hab.* Sweden.

275. *Nematus minutus*.

*Nematus minutus*, *Tischb. Stett. ent. Zeit.* vii. p. 76 (1846).

*Hab.* Lübeck.

**276. *Nematus crassispina*.**

*Nematus crassispina*, *Thoms. Hym. Scand.* i. p. 164 (1871).

*Hab.* Sweden.

**277. *Nematus baccarum*.**

*Nematus baccarum*, *Cameron, Ent. M. Mag.* xii. p. 189 (1876).

*Hab.* Scotland.

**278. *Nematus herbaceæ*.**

*Nematus herbaceæ*, *Cameron, Proc. N. H. Soc. Glasg.* ii. p. 304 (1876).

*Hab.* Britain.

**279. *Nematus vacciniellus*.**

*Nematus crassipes*, var. *vacciniellus*, *Cameron, Ent. M. Mag.* xii. p. 190 (1876).

*Hab.* Britain.

*a.* ♂.

Britain.

J. F. Stephens.

**280. *Nematus umbripennis*.**

*Nematus umbripennis*, *Eversm. Bull. Mosc.* xx. p. 20, n. 25 (1847).

*Hab.* Kasan.

**B. *North- and Central-American species*.****281. *Nematus sycophanta*.**

*Pristiphora sycophanta*, *Walsh, Proc. Ent. Soc. Phil.* vi. p. 263 (1866).

*Hab.* Illinois.

**282. *Nematus trivialis*.**

*Pristiphora tibialis*, *Nort. (nec Newm.) Trans. Amer. Ent. Soc.* i. p. 76 (1867).

*Hab.* Atlantic States.

**283. *Nematus relativus*.**

*Pristiphora relativus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 77 (1867).

*Hab.* Great Slave Lake.

**284. *Nematus idiota*.**

*Pristiphora idiota*, *Nort. Trans. Amer. Ent. Soc.* i. p. 77, n. 4 (1867).

♀. *Pristiphora identidem*, *Nort. Trans. Amer. Ent. Soc.* i. p. 77, n. 5 (1867).

*Hab.* Illinois.

285. *Nematus grossulariæ*.

*Pristiphora grossulariæ*, *Walsh (nec Fisch.)*, *Pract. Ent.* i. p. 123 (1866); *Nort. Trans. Amer. Ent. Soc.* i. p. 77 (1867).

*Hab.* United States.

286. *Nematus jocularis*.

*Pristiphora jocularis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 3 (1880).

*Hab.* Nevada.

287. *Nematus concolor*.

*Nematus concolor*, *Nort. Trans. Amer. Ent. Soc.* i. p. 196 (1867).

*Hab.* North America.

288. *Nematus rapax*.

*Nematus rapax*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 4 (1880).

*Hab.* Nevada.

289. *Nematus labradoris*.

*Nematus labradoris*, *Nort. Trans. Amer. Ent. Soc.* i. p. 196 (1867).

*Hab.* North America.

|                 |                                   |                       |
|-----------------|-----------------------------------|-----------------------|
| <i>a.</i> ♂.    | Arctic America.                   | Capt. Collinson, R.N. |
| <i>b-e.</i> ♂.  | St. Martin's Falls, Albany River, | Dr. Barnston.         |
|                 | Hudson's Bay.                     |                       |
| <i>f, g.</i> ♂. |                                   |                       |

290. *Nematus dimmockii*.

*Nematus dimmockii*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 6 (1880).

*Hab.* Mount Washington.

291. *Nematus inconspicuus*.

(Plate VII. fig. 12.)

Exp. al. 8 lin., long. corp. 4 lin.

Head, antennæ, thorax, and pectus black; mouth and prothorax yellowish; abdomen black above and testaceous beneath, with a narrow border on the sides and at the back of each segment; legs testaceous. Wings hyaline; costa yellowish; three submarginal cells.

*Hab.* New York.

*a.* ♀. (Type of species.)

New York.

E. Doubleday.

292. *Nematus extraneus*.

(Plate VII. fig. 14.)

Exp. al. 7 lin., long. corp. 3 lin.

Testaceous; two basal joints of antennæ, a large irregular spot on the vertex, and three large spots on the thorax, black; abdomen with a black band in the middle, covering most of the three first segments, and expanded on the three following ones, ceasing with segments 7 and 8, on which it is not expanded. Extremities of hind tibiæ and of the joints of hind tarsi slightly marked with blackish above. Wings hyaline; costa and stigma pale yellowish; three submarginal cells.

*Hab.* Hudson's Bay.

*a, b. ♀.* (Types of species.) St. Martin's Falls, Albany Dr. Barnston.  
River.

293. *Nematus pectoralis*.

*Nematus pectoralis*, *Cress. (nec St.-Farg.) Trans. Amer. Ent. Soc.* viii.  
p. 9 (1880).

*Hab.* Colorado, Nevada.294. *Nematus malacus*.

*Nematus malacus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 396 (1867).

*Hab.* North America.295. *Nematus vicinalis*.

*Nematus vicinalis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 4 (1880).

*Hab.* California.296. *Nematus nigrofemoratus*.

*Nematus nigrofemoratus*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 4  
(1880).

*Hab.* Nevada.297. *Nematus latus*.

*Nematus latus*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 4 (1880).

*Hab.* Nevada.298. *Nematus iridescens*.

*Nematus iridescens*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 5 (1880).

*Hab.* Nevada.299. *Nematus parvus*.

*Nematus parvus*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 5 (1880).

*Hab.* Nevada.

300. *Nematus extensicornis*.

*Nematus extensicornis*, *Nort. Proc. Bost. Soc.* viii. p. 159 (1861);  
*id. Trans. Amer. Ent. Soc.* i. p. 197 (1867).

*Hab.* United States.

301. *Nematus marylandicus*.

*Nematus marylandicus*, *Nort. Proc. Ent. Soc. Phil.* iii. p. 7 (1864);  
*id. Trans. Amer. Ent. Soc.* i. p. 197 (1867).

*Hab.* Maryland.

302. *Nematus fallax*.

*Nematus fallax*, *Nort. (nec St.-Farg.) Trans. Amer. Ent. Soc.* i. p. 198  
(1867).

*Hab.* North America.

303. *Nematus suratus*.

*Nematus suratus*, *Fitch, Third Rep. N.Y. State Agr. Soc.* p. 94  
(1859); *Nort. Trans. Amer. Ent. Soc.* i. p. 198 (1867).

*Hab.* New York.

304. *Nematus winnipegensis*.

*Nematus winnipeg*, *Nort. Trans. Amer. Ent. Soc.* i. p. 198 (1867).

*Hab.* Lake Winnipeg.

305. *Nematus monela*.

*Nematus monela*, *Nort. Trans. Amer. Ent. Soc.* i. p. 198 (1867).

*Hab.* Labrador.

306. *Nematus subalbatus*.

*Nematus subalbatus*, *Nort. Proc. Ent. Soc. Phil.* iii. p. 7 (1864); *id.*  
*Trans. Amer. Ent. Soc.* i. p. 192 (1867).

*Hab.* Pennsylvania.

307. *Nematus palliventris*.

*Nematus palliventris*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 5 (1880).

*Hab.* Nevada.

308. *Nematus ruralis*.

*Nematus ruralis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 5 (1880).

*Hab.* Nevada.

309. *Nematus corniger*.

*Nematus corniger*, *Nort. Proc. Bost. Soc.* viii. p. 159 (1861) *id.*  
*Trans. Amer. Ent. Soc.* i. p. 199 (1867).

*Hab.* United States.

*a.* ♀.

New York.

E. Doubleday.

310. *Nematus luteolus*.

*Nematus luteolus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 200 (1867).

*Hab.* North America.

311. *Nematus saskatchewan*.

*Nematus saskatchewan*, *Nort. Trans. Amer. Ent. Soc.* i. p. 200  
 (1867).

*Hab.* North America.

312. *Nematus violaceipennis*.

*Nematus violaceipennis*, *Nort. Trans. Amer. Ent. Soc.* i. p. 201  
 (1867).

*Hab.* North America.

313. *Nematus calais*.

(Plate VII. fig. 11.)

*Exp.* al. 8 lin., long. corp. 4 lin.

Head and thorax black, finely punctured; pleura and pectus shining; abdomen testaceous, the two last segments blackish; legs testaceous, four front femora blackish at base, intermediate tibiæ with a dark line above; hind tibiæ and tarsi blackish, the former rather widened and flattened. Wings hyaline, with piceous stigma and nervures; fore wings clouded in the middle, and with apparently only three submarginal cells, the two first being divided by a white nervule.

*Hab.* Arctic America.

*a.* ♀. (Type of species.)

Mackenzie River.

Dr. Rae.

314. *Nematus nigritus*.

*Nematus nigritus*, *Nort. Proc. Bost. Soc.* viii. p. 159 (1861); *id.*  
*Trans. Amer. Ent. Soc.* i. p. 201 (1867).

*Hab.* United States.

315. *Nematus ventralis*.

*Nematus ventralis*, Say (*nec* Panz.) Long's *Second Exped.* ii. p. 315 (1824); *Nort. Trans. Amer. Ent. Soc.* i. p. 201, n. 16 (1867).

*Hab.* United States.

316. *Nematus nigropectus*.

*Nematus nigropectus*, Cress. *Trans. Amer. Ent. Soc.* viii. p. 6 (1880).

*Hab.* Nevada.

317. *Nematus luteipes*.

*Nematus luteipes*, Cress. *Trans. Amer. Ent. Soc.* viii. p. 6 (1880).

*Hab.* Nevada.

318. *Nematus longicornis*.

*Nematus longicornis*, Esch. *Entomogr.* p. 98, n. 66 (1822); *Nort. Trans. Amer. Ent. Soc.* i. p. 202 (1867).

*Hab.* Island of Unalaschka.

319. *Nematus proximatus*.

*Nematus proximatus*, *Nort. Proc. Bost. Soc.* viii. p. 160 (1861); *id. Trans. Amer. Ent. Soc.* i. p. 202, n. 18 (1867).

*Hab.* United States.

320. *Nematus pallicornis*.

*Nematus pallicornis* et var. *labratus*, *Nort. Proc. Bost. Soc.* viii. p. 160 (1861); *id. Trans. Amer. Ent. Soc.* i. p. 263 (1867).

*Hab.* United States.

321. *Nematus pallifrons*.

*Nematus pallifrons*, Cress. *Trans. Amer. Ent. Soc.* viii. p. 6 (1880).

*Hab.* Texas.

322. *Nematus obscurus*.

*Nematus obscurus*, *Nort. Proc. Bost. Soc.* viii. p. 161, n. 13 (1861); *id. Trans. Amer. Ent. Soc.* i. p. 203 (1867).

*Hab.* Massachusetts.

323. *Nematus salicis-pisum*.

*Nematus salicis-pisum*, Walsh, *Proc. Ent. Soc. Phil.* vi. p. 259 (1866); *Nort. Trans. Amer. Ent. Soc.* i. p. 204 (1867).

*Hab.* North America.

**324. *Nematus militaris*.**

*Nematus militaris*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 7 (1880).

*Hab.* White Mountains.

**325. *Nematus brunneus*.**

*Nematus brunneus*, *Nort. Proc. Ent. Soc. Phil.* iii. p. 8 (1864);  
*id. Trans. Amer. Ent. Soc.* i. p. 205 (1867).

*Hab.* Colorado.

**326. *Nematus rufofasciatus*.**

*Nematus rufofasciatus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 205 (1867).

*Hab.* North America.

**327. *Nematus notabilis*.**

*Nematus notabilis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 7 (1880).

*Hab.* Massachusetts.

**328. *Nematus latifasciatus*.**

*Nematus latifasciatus*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 7 (1880).

*Hab.* White Mountains.

**329. *Nematus erythrogaster*.**

*Nematus erythrogaster*, *Nort. Proc. Ent. Soc. Phil.* iii. p. 8 (1864).

*Hab.* Massachusetts.

**330. *Nematus luteotergum*.**

*Nematus luteotergum*, *Nort. Proc. Bost. Soc.* viii. p. 161 (1861);  
*id. Trans. Amer. Ent. Soc.* i. p. 206 (1867).

*Hab.* United States.

**331. *Nematus edwardsii*.**

*Nematus edwardsii*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 7 (1880).

*Hab.* California.

**332. *Nematus limbatus*.**

*Nematus limbatus*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 8 (1880).

*Hab.* Illinois.



333. *Nematus coryli*.

*Nematus corylus*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 8 (1880).

*Hab.* Pennsylvania.

334. *Nematus castaneus*.

(Plate VII. fig. 16.)

Exp. al. 9 lin., long. corp.  $4\frac{1}{4}$  lin.

Chestnut-colour, head, mesothorax, and pleura darker; antennæ, a large square spot on the vertex, a spot in front of the thorax, and the pectus black; an irregular black spot covering the hinder half of the scutellum; the postscutellum, a portion of the first segment of the abdomen, and extremities of hind tibiæ and hind tarsi dusky. Wings hyaline, fore wings slightly yellowish; stigma and nervures piceous.

*Hab.* Hudson's Bay.

*a, b.* ♀. (Types of species.)

St. Martin's Falls,  
Albany River.

Dr. Barnston.

335. *Nematus neglectus*.

(Plate VII. fig. 15.)

Exp. al. 8 lin., long. corp. 4 lin.

Head and thorax black, mouth and prothorax pale, a more or less complete testaceous ring round the eyes, sides of pectus sometimes with a dull rufous spot; abdomen testaceous, first two segments black at base above; legs testaceous; front femora black at base; middle femora and hind legs black; hind tibiæ rufous beneath. Wings hyaline, male with three and female with four submarginal cells; stigma yellowish.

*Hab.* Hudson's Bay.

*a-c.* ♂ ♀. (Types of species.)

St. Martin's Falls.

Dr. Barnston.

336. *Nematus fur*.

*Nematus fur*, *Walsh, Proc. Ent. Soc. Phil.* vi. p. 263 (1866).

*Hab.* North America.

337. *Nematus hudsonicus*.

*Nematus hudsonicus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 207 (1867).

*Hab.* North America.

338. *Nematus sumptus*.

*Nematus sumptus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 207 (1867).

*Hab.* Maine.

339. *Nematus pleuricus*.

*Nematus pleuricus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 208 (1867).

*Hab.* North America.

340. *Nematus discolor*.

*Nematus discolor*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 8 (1880).

*Hab.* Colorado.

341. *Nematus lateralis*.

*Nematus lateralis*, *Nort. Trans. Amer. Ent. Soc.* i. p. 211 (1867).

*Hab.* North America.

342. *Nematus salicis-desmodioides*.

*Nematus s.-desmodioides*, *Walsh, Proc. Ent. Soc. Phil.* vi. p. 257 (1866).

*Hab.* North America.

343. *Nematus semirufus*.

*Nematus fulvipes*, *Nort. (nec Fall.) Proc. Bost. Soc.* viii. p. 160 (1861); *id. Trans. Amer. Ent. Soc.* i. p. 212 (1867).

*Hab.* United States.

344. *Nematus obtusus*.

*Nematus crassus*, *Esch. (nec Fall.) Entomogr.* p. 213, n. 34 (1822).

*Hab.* Unalaschka.

345. *Nematus trifurcatus*.

(Plate VII. fig. 17.)

Exp. al. 8 lin., long. corp. 4 lin.

Testaceous, antennæ black, a large square black spot on vertex; three large black spots in front and on the sides of the thorax, sometimes nearly confluent; hinder half of the scutellum black; all the segments of the abdomen except the last (beyond which the black tips of the saws and sheaths project) are more or less broadly banded with purplish black in the middle; sides and undersurface

testaceous; pectus black in the middle; a black line down the hind legs. Wings hyaline; nervures piceous; stigma yellowish; three submarginal cells.

This species appears to be allied to *N. crassus*, Esch. (*obtus*us, Kirb.), from Alaska.

*Hab.* Hudson's Bay.

*a-d.* ♀. (Types of species.)      St. Martin's Falls,      Dr. Barnston.  
Albany River.

### 346. *Nematus placentus*.

*Nematus placentus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 213 (1867).

*Hab.* Canada, Labrador.

### 347. *Nematus agilis*.

*Nematus agilis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 9 (1880).

*Hab.* Nevada.

### 348. *Nematus nevadensis*.

*Nematus nevadensis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 9 (1880).

*Hab.* Nevada.

### 349. *Nematus inquilinus*.

*Nematus inquilinus*, *Walsh, Proc. Ent. Soc. Phil.* vi. p. 260 (1866);  
*Nort. Trans. Amer. Ent. Soc.* i. p. 213 (1867).

*Hab.* North America.

### 350. *Nematus longulicornis*.

*Nematus longulicornis*, *Nort. Trans. Amer. Ent. Soc.* i. p. 214,  
n. 37 (1867).

*Nematus longicornis*, *Say (nec Esch.), Bost. Journ.* i. p. 219, n. 3  
(1835).

*Hab.* North America.

### 351. *Nematus trilineatus*.

*Nematus trilineatus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 215 (1867).

*Hab.* North America.

### 352. *Nematus vertebratus*.

*Nematus vertebratus*, *Say, Bost. Journ.* i. p. 218 (1835); *Nort. Trans.*  
*Amer. Ent. Soc.* i. p. 215 (1867).

*Hab.* Indiana, Connecticut.

**353. *Nematus integer*.**

*Nematus integer*, *Say, Bost. Journ.* i. p. 219, n. 2 (1835); *Nort. Trans. Amer. Ent. Soc.* i. p. 216 (1867).

*Hab.* United States.

**354. *Nematus salicis-pomi*.**

*Nematus s.-pomum*, *Walsh, Proc. Ent. Soc. Phil.* vi. p. 255 (1866); *Nort. Trans. Amer. Ent. Soc.* i. p. 216 (1867).

*Hab.* Illinois.

**355. *Nematus hospes*.**

*Nematus hospes*, *Walsh, Proc. Ent. Soc. Phil.* vi. p. 261 (1866); *Nort. Trans. Amer. Ent. Soc.* i. p. 218 (1867).

*Hab.* North America.

**356. *Nematus trivittatus*.**

*Nematus trivittatus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 218 (1867).

*Hab.* North America.

|                 |                                   |                    |
|-----------------|-----------------------------------|--------------------|
| <i>a, b.</i> ♀. | St. Martin's Falls, Albany River, | Dr. Barnston.      |
|                 | Hudson's Bay.                     |                    |
| <i>c.</i> ♀.    | Great Bear Lake.                  | Sir J. Richardson. |

**357. *Nematus dorsivittatus*.**

*Nematus dorsivittatus*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 10 (1880).

*Hab.* Nevada.

**358. *Nematus bivittatus*.**

*Nematus bivittatus*, *Nort. Proc. Bost. Soc.* viii. p. 158 (1866); *id. Trans. Amer. Ent. Soc.* i. p. 219 (1867).

*Hab.* United States.

**359. *Nematus suadus*.**

*Nematus suadus*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 10 (1880).

*Hab.* White Mountains.

**360. *Nematus aureopectus*.**

*Nematus aureopectus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 21 (1867).

*Hab.* United States.

361. *Nematus mellinus*.

*Nematus mellinus*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 10 (1880).

*Hab.* Nevada.

362. *Nematus mendicus*.

*Nematus mendicus*, *Walsh, Proc. Ent. Soc. Phil.* vi. p. 261 (1866);  
*Nort. Trans. Amer. Ent. Soc.* i. p. 220 (1867).

*Hab.* North America.

363. *Nematus chloreus*.

*Nematus chloreus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 221 (1867).

*Hab.* Connecticut.

364. *Nematus stigmatus*.

*Nematus stigmatus*, *Nort. Proc. Bost. Soc.* viii. p. 161 (1861);  
*id. Trans. Amer. Ent. Soc.* i. p. 221 (1867).

*Hab.* Massachusetts.

365. *Nematus monochroma*.

*Nematus monochroma*, *Nort. Proc. Bost. Soc.* viii. p. 161 (1861);  
*id. Trans. Amer. Ent. Soc.* i. p. 221 (1867).

*Hab.* United States.

366. *Nematus hyalinus*.

*Messa hyalina*, *Nort. Proc. Ent. Soc. Phil.* iii. p. 8 (1864); *id. Trans. Amer. Ent. Soc.* i. p. 222 (1867).

*Hab.* New Jersey.

## 57. EUURA.

*Euura*, *Newm. Ent. Mag.* iv. p. 259 (Jan. 1837).

*Cryptocampus*, *Hart. Blattw.* p. 221 (1837).

1. *Euura saliceti*.

*Tenthredo saliceti*, *Fall. Vetensk. Handl.* xxix. p. 111 (1808).

*Euura gallæ*, *Newm. Ent. Mag.* iv. p. 260 (1837).

*Cryptocampus mucronatus*, *Hart. Blattw.* p. 223, n. 2 (1837); *Vollenh. Tijdschr. Ent.* xiv. p. 252, pl. 12, lower fig. (1871).

*Hab.* Northern and Central Europe.

*a-l.* ♂ ♀.

Germany.

J. F. Ruthe.

2. *Euura cynips*.

*Euura cynips*, *Newm. Ent. Mag.* iv. p. 260 (1837).

*Hab.* England.

3. *Euura salicis-pentandræ*.

*Tenthredo salicis-pentandræ*, *Retz. Gen. Spec. Ins.* p. 73, n. 314 (1783).

*Pteronius niger et atra*, *Jur. Hym.* p. 64, pl. vi. gen. 2, fam. 2 (1807).

*Pristiphora duplex*, *St.-Farg. Mon. Tenth.* p. 61, n. 177 (1823).

*Nematus populi et medullarius*, *Hart. Blattw.* pp. 223 & 224, nn. 3, 4 (1837).

*Cryptocampus populi*, *Herr.-Schäff. Deutschl. Ins.* Heft 164 (1839).

*Cryptocampus buccatus*, *Thoms. Œfv. Vet.-Akad. Förh.* xix. p. 639, n. 54 (1864).

*Hab.* Northern and Central Europe.

*a-t.* ♂ ♀.

Germany.

J. F. Ruthe.

4. *Euura angusta*.

*Nematus angustus*, *Hart. Blattw.* p. 222 (1837).

*Cryptocampus angustus*, *Vollenh. Tijdschr. Ent.* xiv. p. 249, pl. xii. upper fig. (1871).

*Hab.* Europe.

*a-k.* ♂ ♀.

Germany.

J. F. Ruthe.

5. *Euura quadrum*.

*Cryptocampus quadrum*, *Costa, Faun. Nap., Tentr.* p. 25, pl. lxv. fig. 2 (1859).

*Hab.* Naples.

6. *Euura orbitalis*.

*Euura orbitalis*, *Nort. Proc. Ent. Soc. Phil.* i. p. 144 (1862); *id. Trans. Amer. Ent. Soc.* i. p. 79 (1867).

*Hab.* United States; Labrador.

7. *Euura salicis-gemmæ*.

*Euura s.-gemma*, *Walsh, Proc. Ent. Soc. Phil.* vi. p. 250 (1866).

*Hab.* United States.

8. *Euura salicis-ovum*.

*Euura s.-ovum*, *Walsh, Proc. Ent. Soc. Phil.* vi. p. 252 (1866)  
*Nort. Trans. Amer. Ent. Soc.* i. p. 80 (1867).

*Hab.* United States.

9. *Euura salicis-ovuli*.

*Euura s.-ovulum*, *Walsh, Proc. Ent. Soc. Phil.* vi. p. 253 (1866).

*Hab.* United States.

10. *Euura salicis-nodi*.

*Euura s.-nodus*, *Walsh, Proc. Ent. Soc. Phil.* vi. p. 253 (1866);  
*Nort. Trans. Amer. Ent. Soc.* i. p. 82 (1867).

*Hab.* United States.

11. *Euura salicicola*.

*Euura salicicola*, *E. A. Smith, N. Amer. Ent.* i. p. 41 (1879); *Cress. Trans. Amer. Ent. Soc.* viii. p. 37 (1880).

*Hab.* Illinois.

12. *Euura perturbans*.

*Euura perturbans*, *Walsh, Proc. Ent. Soc. Phil.* vi. p. 254 (1866);  
*Nort. Trans. Amer. Ent. Soc.* i. p. 83 (1867).

*Hab.* United States.

13. *Euura albiricta*.

*Euura albiricta*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 4 (1880).

*Hab.* Nevada.

## 58. DIPHADNUS.

*Diphadnus*, *Hart. Blattw.* p. 225 (1837).

1. *Diphadnus fuscicornis*.

*Nematus fuscicornis*, *Hart. Blattw.* p. 225 (1837).

*Hab.* Germany.

2. *Diphadnus nigricornis*.

*Diphadnus nigricornis*, *Hart. Blattw.* p. 225 (1837).

*Hab.* Germany?

3. *Diphadnus semineura*.

*Diphadnus semineura*, *Hart. Blattw.* p. 226 (1837).

*Hab.* Germany?

## 59. DINEURA\*.

*Dineura*, *Dahlb. Consp. Tenth.* p. 5 (1835); *Hart. Blattw.* p. 226 (1837).

1. *Dineura viridorsata*.

*Tenthredo virididorsata*, *Retz. Gen. Sp. Ins.* p. 73, n. 312 (1783).

*Tenthredo ulmi*, *Fallen, Vetensk. Handl.* xxix. p. 123, n. 67 (1808).

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\* Thomson places this genus with *Nematus*, from which it differs chiefly in the presence of two marginal cells; but the division between them is frequently obsolete, especially in *D. stilata*.

*Tenthredo* (Allantus) *geeri*, *Klug, Berl. Mag.* viii. p. 213, n. 169 (1818).

*Nematus varius*, *St.-Farg. Mon. Tenthr.* p. 69, n. 208 (1823).

*Dineura degeeri*, *Hart. Blattw.* p. 227, n. 1 (1837).

*Dineura hartigii*, *Gimm. Stett. ent. Zeit.* v. p. 36 (1844).

*Nematus degeeri*, *Thoms. Hym. Scand.* i. p. 80 (1871).

*Hab.* Central Europe.

|                   |                  |                 |
|-------------------|------------------|-----------------|
| <i>a, b.</i> ♂ ♀. | Britain.         | J. F. Stephens. |
| <i>c.</i> ♀.      | Britain.         |                 |
| <i>d.</i> ♂.      | West of England. | W. E. Leach.    |
| <i>e-k.</i> ♂ ♀.  | Germany.         | J. F. Ruthe.    |
| <i>l.</i> ♀.      |                  |                 |

## 2. *Dineura stilata*.

*Tenthredo* (Allantus) *stilata*, *Klug, Berl. Mag.* viii. p. 82, n. 72 (1818).

*Nematus apicalis et ribesii*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 32, n. 22 & 23 (1835).

*Dineura flaveola*, *Erichs. Bull. Mosc.* xx. p. 21 (1847).

*Tenthredo mediocris*, *St.-Farg. et Serv. Enc. Méth.* x. p. 570 (1825).

*Nematus stilatus*, *Thoms. Hym. Scand.* i. p. 82 (1871).

*Hab.* Europe.

|                  |          |                 |
|------------------|----------|-----------------|
| <i>a-g.</i> ♂ ♀. | Britain. | J. F. Stephens. |
| <i>r-y.</i> ♂ ♀. | Germany. | J. F. Ruthe.    |

## 3. *Dineura testaceipes*.

*Tenthredo* (Allantus) *testaceipes*, *Klug, Berl. Mag.* viii. p. 84, n. 75 (1818).

*Dineura ventralis*, *Zadd. Besch. Blattw.* p. 10, fig. 3 (1859).

*Hab.* Central Europe.

## 4. *Dineura despecta*.

*Dineura despecta*, *Hart. Blattw.* p. 228, n. 4 (1837).

*Hab.* Germany, Russia.

## 5. *Dineura selandriiformis*.

*Dineura selandriiformis*, *Cameron, Ent. M. Mag.* xi. p. 252 (1875).

*Hab.* St. Albans.

## 6. *Dineura simulans*.

*Dineura simulans*, *Cameron, Ent. M. Mag.* xiv. p. 155 (1877).

*Hab.* England.



7. *Dineura* (?) *parvula*.

*Tenthredo* (*Allantus*) *parvula*, *Klug, Berl. Mag.* viii. p. 71, n. 51 (1818).

*Tenthredo minuta*, *St.-Farg. et Serv. Enc. Méth.* x. p. 570 (1825).

*Hab.* Central Europe.

*a.*

Britain.

J. F. Stephens.

8. *Dineura* (?) *mentiens*.

*Blennocampa mentiens*, *Thoms. Hym. Scand.* i. p. 221 (1871).

*Hab.* Sweden.

9. *Dineura* *languida*.

*Tenthredo languida*, *Erichs. Middend. Reise*, ii. pt. i. p. 62 (1851).

*Hab.* Siberia.

10. *Dineura* *linitus*.

*Dineura linitus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 240 (1867).

*Hab.* Maine.

11. *Dineura* *lateralis*.

*Dineura lateralis*, *Nort. Trans. Amer. Ent. Soc.* i. p. 240 (1867).

*Hab.* Maine.

12. *Dineura* *litura*.

*Tenthredo* (*Allantus*) *litura*, *Klug, Berl. Mag.* viii. p. 83, n. 73 (1818); *Nort. Trans. Amer. Ent. Soc.* i. p. 240 (1867).

*Hab.* Georgia.

13. *Dineura* *luteipes*.

*Dineura luteipes*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 11 (1880).

*Hab.* Maine.

## 60. HEMICHROA.

*Hemichroa*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 55 (1835).

*Leptocerca*, *Hart. Blattw.* p. 228 (1837).

1. *Hemichroa* *alni*.

*Tenthredo alni*, *Linn. Syst. Nat.* i. p. 559, n. 37 (1758); *id. Faun. Suec.* p. 395 (1761).

*Tenthredo* (*Allantus*) *alni*, *Klug, Berl. Mag.* viii. p. 83, n. 74 (1818).

*Dineura alni*, *Vollenh. Tijdschr. Ent.* viii. p. 84, pl. v. (1865).

*Tenthredo australis*, *St.-Farg. Mon. Tenth.* p. 71, n. 217 (1823); *id. Faun. Franç.* p. 16, n. 1, pl. iii. fig. 1.

*Hab.* Europe.

|                |                  |                 |
|----------------|------------------|-----------------|
| <i>a-e.</i> ♀. | Britain.         | J. F. Stephens. |
| <i>f.</i> ♀.   | West of England. | W. E. Leach.    |
| <i>g-i.</i> ♀. | Germany.         | J. F. Ruthe.    |

## 2. *Hemichroa rufa.*

*Tenthredo rufa*, *Panz. Faun. Germ.* Heft 72, pl. ii. (1799).

*Tenthredo* (*Allantus*) *rufa*, *Klug, Berl. Mag.* viii. p. 82, n. 71 (1818).

*Dineura rufa*, *Vollenh. Tijdschr. Ent.* viii. p. 89, pl. vi. (1865).

*Hab.* Europe; North America.

|                |  |                 |
|----------------|--|-----------------|
| <i>a-c.</i> ♀. | Britain.   | J. F. Stephens. |
| <i>d.</i> ♀.   | Britain.   |                 |
| <i>e-h</i> ♀.  | Germany.   | J. F. Ruthe.    |
| <i>i-p.</i> ♀. | St. Martin's Falls, Albany River,<br>Hudson's Bay. | Dr. Barnston.   |

## 3. *Hemichroa unicolor,*

*Dineura unicolor*, *Rudow, Stett. ent. Zeit.* xxxiii. p. 218 (1872).

*Hab.* Harz?

## 4. *Hemichroa nigriceps.*

*Leptocercus nigriceps*, *Thoms. Hym. Scand.* i. p. 78 (1871).

*Hab.* Sweden.

## 5. *Hemichroa albidovariata.*

*Hemichroa albidovariata*, *Nort. Trans. Amer. Ent. Soc.* iv. p. 81 (1872).

*Hab.* Texas, Georgia.

|              |          |                                   |
|--------------|----------|-----------------------------------|
| <i>a.</i> ♀. | Georgia. | Probably from Abbot's collection. |
|--------------|----------|-----------------------------------|

## 6. *Hemichroa fraternalis.*

*Hemichroa fraternalis*, *Nort. Trans. Amer. Ent. Soc.* iv. p. 81 (1872).

*Hab.* Texas.

## 61. *MESONEURA.*

*Mesoneura*, *Hart. Blattw.* p. 228 (1837).

*Pristis*, *Brullé, Hym.* iv. p. 665 (1846).

### 1. *Mesoneura verna.*

*Tenthredo* (*Allantus*) *verna*, *Klug, Berl. Mag.* viii. p. 55, n. 21 (1818).

- Tenthredo punctigera*, *St.-Farg. Mon. Tenth.* p. 160 (1823); *Faun. Franç.* p. 54, n. 97, pl. vii. fig. 6.  
*Selandria biloba*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 54 (1835).  
*Dineura opaca*, *Hart. Blattw.* p. 229 (1837).  
*Dineura dorsalis*, *Först. Stett. ent. Zeit.* v. p. 263 (1844).  
*Nematus opacus*, *Thoms. Hym. Scand.* i. p. 81 (1871).  
*Selandria labialis*, *Brullé, Expéd. Scient. de Morée*, iii. (1) pt. 2, p. 393, n. 872 (1832).

*Hab.* Europe.

|                                    |          |                 |
|------------------------------------|----------|-----------------|
| a. ♀.                              | Britain. | J. F. Stephens. |
| b. ♀. (Type of <i>S. biloba</i> .) | Britain. | J. F. Stephens. |
| c-g. ♀.                            | Germany. | J. F. Ruthe.    |

## 2. *Mesoneura pallipes*.

*Dineura pallipes*, *Hart. Blattw.* p. 229 (1837).

*Hab.* Harz.

## 3. *Mesoneura parva*.

*Dineura parvus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 241 (1867).

*Hab.* Connecticut.

## 4. *Mesoneura albipes*.

*Mesoneura albipes*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 11 (1880).

*Hab.* Nevada.

## 5. *Mesoneura obtusa*.

*Tenthredo* (*Allantus*) *obtusa*, *Klug, Berl. Mag.* viii. p. 55, n. 20 (1818).

*Hab.* Georgia.

## 6. *Mesoneura* (?) *varinervia*.

*Tenthredo varinervia*, *Spinola, Gay's Fauna Chilena*, vi. p. 558 (1851).

*Hab.* Chili.

a. ♀. Chili\*.

# Subfamily VII. SELANDRIINÆ.

## 62. ZARCA.

*Zarca*, *Cameron, Trans. Ent. Soc. Lond.* 1878, p. 142.

### 1. *Zarca apicalis*.

*Zarca apicalis*, *Cameron, Trans. Ent. Soc. Lond.* 1878, p. 143.

*Hab.* Brazil.

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\* Differs from *Mesoneura* in having only one inner cell on the hind wings instead of two.

63. **BLENNOCAMPA\***.

*Blennocampa*, *Hart. Blattw.* p. 266 (1837).

A. *European Species.*1. *Blennocampa nana.*

*Tenthredo* (*Allantus*) *nana*, *Klug, Berl. Mag.* viii. p. 72, n. 54 (1818).

*Hab.* Central Europe.

a-h. ♀.

Germany.

J. F. Ruthe.

2. *Blennocampa waldheimii.*

*Tenthredo* (*Blennocampa*) *waldheimii*, *Gimm. Arbeit. nat. Ver. Riga*, i. p. 51 (1848).

*Hab.* Germany, Livonia.

a. ♀.

Aix-la-Chapelle†.

Prof. A. Förster.

3. *Blennocampa fuscula.*

*Tenthredo* (*Allantus*) *fuscula*, *Klug, Berl. Mag.* viii. p. 70, n. 50 (1818).

*Tenthredo* (*Allantus*) *pusilla*, *Klug, Berl. Mag.* viii. p. 71, n. 52 (1818); *Vollenh. Tijdschr. Ent.* iv. p. 79, pl. iii. (1861).

*Hab.* Europe.

a-d. ♂ ♀.

Britain.

J. F. Stephens.

e. ♀. (As *B. alternipes*.)

Britain.

J. F. Stephens.

f-l. ♀. (As *B. cinereipes*.)

Britain.

J. F. Stephens.

m, n. ♀. (Ditto.)

Britain.

o-z. ♂ ♀.

Germany.

J. F. Ruthe.

4. *Blennocampa tenuicornis.*

*Tenthredo* (*Allantus*) *tenuicornis*, *Klug, Berl. Mag.* viii. p. 68, n. 45 (1818).

*Hab.* Königsberg.

\* The genera allied to *Blennocampa* will require a thorough revision when better known. They are wholly artificial at present, the males of many species being without inner cells on the hind wings, and thus belonging to *Blennocampa*, while the females have one, and would thus, unless the sexes were accurately known, fall into *Monophadnus*.

† This species was originally described from Livonia. The specimen which I refer to it is ticketed *Blennocampa grandicornis*, Först., but has not been described under that name, so far as I am aware.

5. *Blennocampa betuleti*.

*Tenthredo* (*Allantus*) *betuleti*, *Klug, Berl. Mag.* viii. p. 73, n. 57 (1818).

*Hab.* Europe.

|                  |          |                 |
|------------------|----------|-----------------|
| <i>a.</i> ♀.     | Britain. | J. F. Stephens. |
| <i>b-f.</i> ♂ ♀. | Germany. | J. F. Ruthe.    |

6. *Blennocampa fuscus*.

*Tenthredo fusca*, *St.-Farg. Mon. Tenth.* p. 106, n. 301 (1823).

*Hab.* "In horto regio Fontis Bellandi."

7. *Blennocampa cerasi*.

*Tenthredo cerasi*, *Linn. Syst. Nat.* i. p. 557, n. 14 (1758); *Faun. Suec.* p. 391 (1761).

*Tenthredo flavipes*, *Schrank, Enum. Ins. Austr.* p. 340, n. 686 (1781).

*Tenthredo limacina*, *Retz. Gen. Spec. Ins.* p. 73, n. 313 (1783).

*Tenthredo æthiops*, *Fabr. Ent. Syst.* ii. p. 121, n. 65 (1793); *Hart. Blattw.* p. 267 (1837).

*Tenthredo* (*Allantus*) *æthiops*, *Klug, Berl. Mag.* viii. p. 66, n. 41 (1818).

*Selandria atra*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 52 (1835).

*Hab.* Europe.

|   |          |                     |
|---|----------|---------------------|
| <i>a.</i> ♀.                            | Britain. | J. F. Stephens.     |
| <i>b.</i> ♀. (Type of <i>S. atra</i> .) | Britain. | J. F. Stephens.     |
| <i>c.</i> ♀.                            | Britain. | T. R. Billups, Esq. |
| <i>d-t.</i> ♂ ♀.                        | Germany. | J. F. Ruthe.        |

8. *Blennocampa vernalis*.

*Tenthredo vernalis*, *Fourcr. Ent. Par.* ii. p. 376, n. 40 (1785).

*Tenthredo ephippium*, *Panz. Faun. Germ.* Heft 52, pl. v. (1798).

*Tenthredo* (*Allantus*) *ephippium*, *Klug, Berl. Mag.* viii. p. 61, n. 32 (1818).

*Hab.* Europe.

|                |          |                 |
|----------------|----------|-----------------|
| <i>a-i.</i> ♀. | Britain. | J. F. Stephens. |
| <i>k.</i> ♀.   | Britain. |                 |
| <i>l-t.</i> ♀. | Germany. | J. F. Ruthe.    |
| <i>u.</i> ♀.   | Sweden?  |                 |

9. *Blennocampa fuliginosa*.

*Tenthredo fuliginosa*, *Schrank, Enum. Ins. Austr.* p. 334, n. 670 (1781).

*Tenthredo nigrita*, *Fabr. Syst. Piez.* p. 39, n. 47 (1804).

*Tenthredo cærulescens*, *Fourcr. Ent. Par.* ii. p. 373, n. 30 (1785).

*Tenthredo* (Allantus) fuliginosa, *Klug, Berl. Mag.* viii. p. 64, n. 37 (1818).

*Tenthredo* trichocera, *St.-Farg. Mon. Tenthr.* p. 81, n. 240 (1823).

? *Selandria* geniculata, *Steph. Ill. Brit. Ent., Mand.* vii. p. 49 (1835).

*Hab.* Europe.

|   |           |                 |
|---|-----------|-----------------|
| <i>a-e.</i> ♀.                                | Britain.  | J. F. Stephens. |
| <i>f-h.</i> ♀.                                | Britain.  |                 |
| <i>i.</i> ♀. (Type of <i>S. geniculata</i> ?) | Britain*. | J. F. Stephens. |
| <i>k-bb.</i> ♂ ♀.                             | Germany.  | J. F. Ruthe.    |

### 10. *Blennocampa maura*.

*Tenthredo maura*, *Schrank, Fauna Boica*, ii. pt. 2, p. 248 (1802).

*Tenthredo* (Allantus) alternipes, *Klug, Berl. Mag.* viii. p. 67, n. 42 (1818).

*Hab.* Central Europe.

|                |          |              |
|----------------|----------|--------------|
| <i>a-d.</i> ♀. | Germany. | J. F. Ruthe. |
|----------------|----------|--------------|

### 11. *Blennocampa cinereipes*.

*Tenthredo* (Allantus) cinereipes, *Klug, Berl. Mag.* viii. p. 67, n. 43 (1818).

? *Selandria* tibialis, *Steph. Ill. Brit. Ent., Mand.* vii. p. 49 (1835).

*Hab.* Europe.

|                  |            |              |
|------------------|------------|--------------|
| <i>a-e.</i> ♂ ♀. | Germany †. | J. F. Ruthe. |
|------------------|------------|--------------|

### 12. *Blennocampa subcana*.

*Selandria* subcana, *Zadd. Beschr. Blattw.* p. 34 (1859).

*Blennocampa* subcana, *Cam. Ent. M. Mag.* xiv. p. 56 (1877).

*Hab.* Königsberg.

### 13. *Blennocampa uncta*.

*Blennocampa* uncta, *Klug, Berl. Mag.* viii. p. 77, n. 63 (1818).

*Hab.* Central Europe.

### 14. *Blennocampa humeralis*.

*Selandria* humeralis, *Vollenh. Tijdschr. Ent.* xii. p. 122 (1869).

*Hab.* Holland.

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\* The description of this species is not sufficiently precise to enable me to assign the supposed type to it without hesitation.

† I cannot find the types of *S. tibialis*.

15. *Blennocampa elongatula*.

*Tenthredo* (Allantus) *elongatula*, *Klug, Berl. Mag.* viii. p. 214, n. 170 (1818).

? *Tenthredo cothurnata*, *St.-Farg. Mon. Tenth.* p. 106, n. 300 (1823).

*Hab.* Germany.

16. *Blennocampa lineolata*.

*Tenthredo* (Allantus) *lineolata*, *Klug, Berl. Mag.* viii. p. 76, n. 82 (1818).

*Selandria lineolata*, *Zadd. Besch. Blattw.* p. 32, fig. 14 (1859).

*Hab.* Britain ; Germany.

17. *Blennocampa albipennis*.

*Selandria albipennis*, *Zadd. Besch. Blattw.* p. 33 (1859).

*Hab.* Königsberg.

18. *Blennocampa subserrata*.

*Blennocampa subserrata*, *Thoms. Op. Ent.* ii. p. 285, n. 22 (1870);  
*id. Hym. Scand.* i. p. 220, n. 25 (1871).

*Hab.* Sweden.

19. *Blennocampa albiventris*.

*Tenthredo* (Allantus) *albiventris*, *Klug, Berl. Mag.* viii. p. 52, n. 15 (1818).

*Hab.* Austria.

20. *Blennocampa sexpunctata*.

*Tenthredo sexpunctata*, *St.-Farg. Mon. Tenth.* p. 102, n. 287 (1823);  
*id. Faun. Franç.* p. 43, n. 67, pl. vii. fig. 1.

*Hab.* Paris.

21. *Blennocampa assimilis*.

*Hylotoma assimilis*, *Fallén, Vetensk. Handl.* xxviii. p. 204, n. 12 (1807).

*Tenthredo* (Allantus) *hyalina*, *Klug, Berl. Mag.* viii. p. 58 n. 25 (1818).

*Hab.* Europe.

*a-c.* ♀.

*d.* ♀. (As *B. versicolor*.)

*e-m.* ♀.

Britain.

Britain.

Germany.

J. F. Stephens.

J. F. Ruthe.

22. *Blennocampa tenella*.

*Tenthredo* (Allantus) *tenella*, *Klug, Berl. Mag.* viii. p. 59, n. 29 (1818).

*Blennocampa albida*, *Thoms. Op. Ent.* ii. p. 282, n. 13 (1870).

*Blennocampa tenuicornis*, *Thoms. Hym. Scand.* i. p. 209 (1871).

*Hab.* Europe.

*a-d.* ♂ ♀.

Germany.

J. F. Ruthe.

### 23. *Blennocampa recta*.

*Blennocampa recta*, *Thoms. Hym. Scand.* i. p. 210 (1871).

*Hab.* Sweden.

### 24. *Blennocampa lanceolata*.

*Blennocampa lanceolata*, *Thoms. Op. Ent.* ii. p. 283, n. 16 (1870);  
*id. Hym. Scand.* i. p. 211, n. 9 (1871).

*Hab.* South Sweden.

### 25. *Blennocampa bicolor*.

*Blennocampa bicolor*, *Tischb. Stett. ent. Zeit.* xiii. p. 107 (1852).

*Hab.* Hungary.

### 26. *Blennocampa croceipes*.

*Blennocampa croceipes*, *Costa, Ann. Mus. Nap.* ii. p. 104 (1864).

*Hab.* Turin.

### 27. *Blennocampa tiliaë*.

*Blennocampa tiliaë*, *Kaltenbach, Pflanzenfeinde*, p. 78 (1872).

*Hab.* Germany.

### 28. *Blennocampa* (?) *spretæ*.

*Tenthredo spretæ*, *St.-Farg. Mon. Tenth.* p. 78, n. 232 (1823).

*Hab.* France.

### 29. *Blennocampa* (?) *fraxini*.

*Tenthredo fraxini*, *St.-Farg. Mon. Tenth.* p. 106, n. 302 (1823).

*Hab.* Paris.

### B. *West-Asiatic Species*.

### 30. *Blennocampa lugens*.

*Blennocampa lugens*, *André, Spec. Hym.* i. p. 583 (1881); *Annales de la Soc. Ent. de France* (6), i. p. 353 (1881).

*Hab.* Beyrout.

### 31. *Blennocampa strigata*.

*Blennocampa strigata*, *André, Spec. Hym.* i. p. 584 (1881); *Annales de la Soc. Ent. de France* (6), i. p. 352 (1881).

*Hab.* Beyrout.



C. *North-American Species (including Mexico).*32. *Blennocampa carbonaria*.

*Blennocampa carbonaria*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 12 (1880).

*Hab.* Georgia.

33. *Blennocampa floridana*.

*Selandria floridana*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 12 (1880).

*Hab.* Florida.

34. *Blennocampa parva*.

*Selandria parva*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 12 (1880).

*Hab.* Colorado.

35. *Blennocampa pygmæa*.

*Tenthredo pygmæa*, *Say, Long's 2nd Exped.* ii. p. 318 (1824).

*Selandria vitis*, *Harr. Ins. Mass.* p. 378 (1841); *Norton, Proc. Bost. Soc.* viii. p. 219 (1861); *id. Trans. Amer. Ent. Soc.* i. p. 245 (1867).

*Hab.* United States.

a. ♀.

36. *Blennocampa inhabilis*.

*Selandria inhabilis*, *Norton, Proc. Bost. Soc.* viii. p. 220 (1861); *id. Trans. Amer. Ent. Soc.* i. p. 246 (1867).

*Hab.* Massachusetts.

37. *Blennocampa sumichrasti*.

*Selandria sumichrasti*, *Norton, Trans. Amer. Ent. Soc.* iv. p. 82 (1872).

*Hab.* Mexico.

38. *Blennocampa bipartita*.

*Selandria bipartita*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 12 (1880).

*Hab.* Texas.

39. *Blennocampa capitalis*.

*Selandria capitalis*, *Norton, Trans. Amer. Ent. Soc.* i. p. 247 (1867).

*Hab.* Brooklyn.

D. *South-American Species.*40. *Blennocampa obscura*.

(Plate VIII. fig. 1.)

Exp. al. 4 lin., long. corp. 2 lin.

Black ; fore wings smoky hyaline ; hind wings clearer, nervures piceous.

*Hab.* Santarem.

*a, b.* ♂. (Types of species.) Santarem. H. W. Bates, Esq.

#### 41. *Blennocampa appendiculata*.

*Tenthredo appendiculata*, *Spinola, Mem. Accad. Torino*, ser. 2, vol. xiii. p. 26 (1853).

*Hab.* Pará.

#### 42. *Blennocampa rubricollis*.

*Tenthredo rubricollis*, *Spinola, Mem. Accad. Torino*, ser. 2, vol. xiii. p. 26 (1853).

*Hab.* Pará.

#### 43. *Blennocampa cognata*.

*Tenthredo cognata*, *Spinola, Guy's Fauna Chilena*, vi. p. 558 (1851).

*Hab.* Chili.

#### 44. *Blennocampa leucona*.

*Tenthredo leuconus*, *Spinola, Gay's Fauna Chilena*, vi. p. 557 (1851).

*Hab.* Chili.

### 64. PHYMATOCERA.

*Phymatocera*, *Dahlb. Consp. Tenth.* p. 4 (1835); *Hart. Blattw.* p. 276 (1837).

*Pectinia*, *Brullé, Spec. Hym.* iv. p. 664 (1846).

*Blennocampa*, div. i., *Thoms. Hym. Scand.* i. p. 205 (1871).

#### 1. *Phymatocera aterrima*.

*Tenthredo fuliginosa*, *Fall. (nec Schrank) Vetensk. Handl.* xxix. p. 109, n. 45 (1808).

*Tenthredo* (*Allantus*) *aterrima*, *Klug, Berl. Mag.* viii. p. 81, n. 70 (1818).

*Phymatocera aterrima*, *Vollenh. Tijdschr. Ent.* v. p. 55, pl. ii. (1862).

*Selandria robinsoni*, *Curt. Ann. Nat. Hist.* (2) vi. p. 393 (1850); *id. Trans. Linn. Soc.* xxi. p. 39, pl. v. (1852).

*Hab.* Europe.

*a.* ♀.  
*b.* ♂.

Germany.  
Munich.

J. F. Ruthe.  
H. Buchecker.

#### 2. *Phymatocera rudis*.

*Selandria rudis*, *Norton, Proc. Bost. Soc.* viii. p. 221 (1861); *id. Trans. Amer. Ent. Soc.* i. p. 251 (1867).

*Hab.* United States.

3. *Phymatocera nevadensis*.

*Selandria nevadensis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 13 (1880).

*Hab.* Nevada.

4. *Phymatocera montivaga*.

*Selandria montivaga*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 13 (1880).

*Hab.* Nevada.

5. *Phymatocera rufula*.

*Phymatocera rufula*, *Norton, Proc. Bost. Soc.* viii. p. 221 (1861);  
*id. Trans. Amer. Ent. Soc.* i. p. 251 (1867).

*Hab.* Connecticut.

6. *Phymatocera fumipennis*.

*Selandria fumipennis*, *Norton, Proc. Bost. Soc.* viii. p. 222 (1861);  
*id. Trans. Amer. Ent. Soc.* i. p. 252 (1867).

*Hab.* United States.

*a, b.* ♀.

7. *Phymatocera nubilipennis*.

*Selandria nubilipennis*, *Norton, Trans. Amer. Ent. Soc.* i. p. 252 (1867).

*Hab.* Maine, Massachusetts.

8. *Phymatocera albicollis*.

*Selandria albicollis*, *Norton, Trans. Amer. Ent. Soc.* iv. p. 85 (1872).

*Hab.* Texas.

## 65. HOPLOCAMPA.

*Hoplocampa*, *Hart. Blattw.* p. 276 (1837).

1. *Hoplocampa testudinea*.

*Tenthredo* (Allantus) *testudinea*, *Klug, Berl. Mag.* viii. p. 60, n. 30 (1818).

*Hab.* Central Europe.

*a-c.* ♂ ♀.  
*d.* ♀.

Britain.  
North of England.

J. F. Stephens.  
W. E. Leach.

2. *Hoplocampa apicaris*.

*Tenthredo apicaris*, *Fourcr. Ent. Par.* ii. p. 376, n. 38 (1785).  
*Allantus ferrugineus*, *Panz. Faun. Germ.* Heft 90, pl. ix. (1805).  
*Hylotoma ferruginea*, *Fabr. Syst. Piez.* p. 26, n. 24 (1804).

*Tenthredo* (Allantus) *brunnea*, *Klug, Berl. Mag.* viii. p. 53, n. 16 (1818).

*Hab.* Central Europe.

|   |              |                 |
|---|--------------|-----------------|
| <i>a-c.</i> ♀.  | Britain,     | J. F. Stephens. |
| <i>d, e.</i> ♀. (As <i>H. plagiata</i> and <i>H. fulvicornis</i> .) | Britain.     | J. F. Stephens. |
| <i>f-i.</i> ♂ ♀.  | Germany.     | J. F. Ruthe.    |
| <i>k.</i> ♀.  | Switzerland. | H. Buchecker.   |

### 3. *Hoplocampa brevis*.

*Tenthredo* (Allantus) *brevis*, *Klug, Berl. Mag.* viii. p. 53 (1818).

? *Tenthredo brevis*, *St.-Farg. Mon. Tenth.* p. 108, n. 312 (1823).

*Hab.* Central Europe.

|                |          |              |
|----------------|----------|--------------|
| <i>a-c.</i> ♀. | Germany. | J. F. Ruthe. |
|----------------|----------|--------------|

### 4. *Hoplocampa plagiata*.

*Tenthredo* (Allantus) *plagiata*, *Klug, Berl. Mag.* viii. p. 56, n. 22 (1818).

? *Tenthredo pallida*, *St.-Farg. Mon. Tenth.* p. 105, n. 297 (1823).

*Hab.* Central Europe.

### 5. *Hoplocampa cratægi*.

*Tenthredo* (Allantus) *cratægi*, *Klug, Berl. Mag.* viii. p. 54, n. 18 (1818).

*Tenthredo verticata et luteola*, *St.-Farg. Mon. Tenth.* p. 108, n. 311, 313 (1823).

*Hab.* Central Europe.

|                   |               |                 |
|-------------------|---------------|-----------------|
| <i>a-f.</i> ♀.    | Britain.      | J. F. Stephens. |
| <i>g, h.</i> ♂ ♀. | Germany.      | J. F. Ruthe.    |
| <i>i, k.</i> ♂.   | Schleissheim. | H. Buchecker.   |

### 6. *Hoplocampa pallida*.

*Tenthredo pallida*, *Newm. Ent. Mag.* iv. p. 262 (1837).

*Tenthredo alpina*, *Zett. Ins. Lapp.* p. 339, n. 3 (1838).

*Hoplocampa alpina*, *Thoms. Op. Ent.* ii. p. 278, n. 4 (1870); *id. Hym. Scand.* i. p. 202, n. 5 (1871).

*Hab.* North Europe.

|                   |          |                 |
|-------------------|----------|-----------------|
| <i>a, b.</i> ♂ ♀. | Britain. | J. F. Stephens. |
|-------------------|----------|-----------------|

### 7. *Hoplocampa pectoralis*.

*Hoplocampa pectoralis*, *Thoms. Hym. Scand.* i. p. 202 (1871).

*Hab.* North Europe.

|   |          |                 |
|---|----------|-----------------|
| <i>a.</i> ♀. (As <i>Blenn. melanocephala</i> .) | Britain. | J. F. Stephens. |
|---|----------|-----------------|

8. *Hoplocampa fulvicornis*.

*Tenthredo fulvicornis*, *Panz. Faun. Germ.* Heft 82, pl. xiii. (1801).

*Tenthredo* (*Allantus*) *rutilicornis*, *Klug, Berl. Mag.* viii. p. 54, n. 19 (1810).

*Tenthredo parvula*, *St.-Farg. Mon. Tenth.* p. 107, n. 306 (1823); *id. Faun. Franç.* p. 49, n. 87, pl. vii. fig. 4.

*Hab.* Central Europe.

*a-k.* ♂ ♀.

Germany.

J. F. Ruthe.

9. *Hoplocampa chrysorrhœa*.

*Tenthredo* (*Allantus*) *chrysorrhœa*, *Klug, Berl. Mag.* viii. p. 60, n. 31 (1818).

*Hab.* Germany.

10. *Hoplocampa* (?) *hæmorrhoidalis*.

*Tenthredo hæmorrhoidalis*, *St.-Farg. Mon. Tenth.* p. 107, n. 305 (1823).

*Hab.* Paris.

11. *Hoplocampa xylostei*.

*Selandria xylostei*, *Giraud, Verh. z.-b. Wien*, xiii. p. 1297, pl. xxii (1863).

*Hab.* Germany.

12. *Hoplocampa gallicola*.

*Hoplocampa gallicola*, *Cameron, Ent. M. Mag.* xiv. p. 156 (1877).

*Hab.* Devonshire.

13. *Hoplocampa fabricii*.

*Tenthredo fulvicornis*, *Fabr. (nec Panz.) Syst. Piez.* p. 38, n. 45 (1804).

*Tenthredo* (*Allantus*) *fulvicornis*, *Klug, Berl. Mag.* viii. p. 51, n. 33 (1818).

*Selandria fulvicornis*, *Vollenh. Tijdschr. Ent.* xxiii. p. 4, pl. i. (1880).

*Hab.* Germany.

14. *Hoplocampa halcyon*.

*Selandria halcyon*, *Nort. Proc. Bost. Soc.* viii. p. 222 (1861); *id. Trans. Amer. Ent. Soc.* i. p. 252 (1867).

*Selandria flavicornis*, *Provancher, Nat. Canad.* x. p. 100 (1878).

*Hab.* United States.

15. *Hoplocampa montana*.

*Selandria montana*, *Cress. Proc. Ent. Soc. Phil.* iv. p. 244 (1865); *Nort. Trans. Amer. Ent. Soc.* i. p. 253 (1867).

*Hab.* Colorado.

**16. *Hoplocampa spissipes*.**

*Selandria spissipes*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 14 (1880).

*Hab.* Colorado.

**17. *Hoplocampa gentilis*.**

*Selandria gentilis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 14 (1880).

*Hab.* Colorado.

**18. *Hoplocampa lenis*.**

*Selandria lenis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 14 (1880).

*Hab.* Colorado.

**19. *Hoplocampa* (?) *atriceps*\*.**

(Plate VIII. fig. 18.)

Exp. al. 6 lin., long. corp. 3 lin.

Luteous; head and coxæ black; anterior femora black at the base; middle femora and hind legs black; back of mesothorax and metathorax indistinctly blackish. Wings smoky yellowish hyaline, with fuscous nervures; fore wings scarcely darker than the hind wings.

*Hab.* Georgia.

a. (Type of species.) Georgia. (Probably from Abbot's collection.)

**20. *Hoplocampa* (?) *nova*.**

*Selandria nova*, *Nort. Trans. Amer. Ent. Soc.* i. p. 254 (1867).

*Hab.* Maine.

**21. *Hoplocampa* (?) *sodalis*.**

*Selandria sodalis*, *Nort. Trans. Amer. Ent. Soc.* viii. p. 14 (1880).

*Hab.* Colorado.

**66. MONOPHADNUS.**

*Monophadnus*, *Hart. Blattw.* p. 271 (1837).

A. *Europæo-Asiatic Species* (including Japan and North China).

**1. *Monophadnus melanocephalus*.**

*Tenthredo melanocephala*, *Fabr. Ent. Syst. Suppl.* p. 216 (1798); *Coqueb. Icones*, pl. iii. fig. 6 (1799).

*Tenthredo melanosterna* et *testacea*, *St.-Farg. Mon. Tenth.* p. 107, n. 308, 309 (1823).

*Selandria melanocephala*, *Zaddach, Besch. Blattw.* p. 32, fig. 15 (1859); *Vollenh. Tijdschr. Ent.* viii. p. 79, pl. iv. (1865).

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\* This species does not well agree with its congeners, the abdomen and wings being longer; but I place it here provisionally, because the neururation is the same.

*Tenthredo* (Allantus) *melanocephala*, *Klug, Berl. Mag.* viii. p. 51, n. 13 (1818).

*Monophadnus melanocephalus*, *Costa, Faun. Nap., Tentr.* p. 50, pl. lxviii. fig. 2 (1859).

*Selandria fulvicollis*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 47 (1835).

♂. *Tenthredo* (Allantus) *albida*, *Klug, Berl. Mag.* viii. p. 52, n. 14 (1818).

*Selandria versicolor*, *Newm. Ent. Mag.* iv. p. 262 (1837).

*Hab.* Central Europe.

a-c. ♀. (Types of *S. fulvicollis*.)

Britain.

J. F. Stephens.

d. ♀.

Germany.

J. F. Ruthe.

## 2. *Monophadnus scutellaris*.

*Blennocampa scutellaris*, *André, Spec. Hym.* i. p. 584 (1881).

*Hab.* S. France.

## 3. *Monophadnus luteiventris*.

*Tenthredo* (Allantus) *luteiventris*, *Klug, Berl. Mag.* viii. p. 56, n. 23 (1818).

*Phyllotoma fuscipennis*, *Fallén, Mon. Tenth.* p. 29, n. 5 (1829).

*Hab.* Europe.

a-g. ♀.

Britain.

J. F. Stephens.

h-o. ♀.

Germany.

J. F. Ruthe.

p-r. ♀.

Munich.

H. Buchecker.

s-u. ♀.

Zurich.

H. Buchecker.

## 4. *Monophadnus spinolæ*.

*Tenthredo* (Allantus) *spinolæ*, *Klug, Berl. Mag.* viii. p. 57, n. 24 (1818).

*Hylotoma ventralis*, *Spin. (nec Panz.) Ins. Lig.* i. p. 1 (1806).

*Monophadnus ventralis*, *Costa, Faun. Nap., Tentr.* p. 51, pl. lxviii. figs. 5 & 6 (1859).

*Hab.* Germany; Italy.

a-d. ♂.

Munich.

H. Buchecker.

## 5. *Monophadnus melanopygius*.

*Monophadnus melanopygius*, *Costa, Faun. Nap., Tentr.* p. 52, pl. lxviii. fig. 4 (1859).

*Hab.* Reggio.

## 6. *Monophadnus gastricus*.

*Monophadnus gastricus*, *Costa, Faun. Nap., Tentr.* p. 53 (1859).

*Hab.* Naples.

## 7. *Monophadnus albidopictus*.

*Monophadnus albidopictus*, *Costa, Faun. Nap., Tentr.* p. 53, pl. lxix. fig. 1 (1859).

*Hab.* Naples.

8. *Monophadnus tenuicingulatus*.

*Monophadnus tenuicingulatus*, *Costa, Faun. Nap., Tentr.* p. 54, pl. lxi. fig. 2 (1859).

*Hab.* Naples.

9. *Monophadnus luridiventris*.

*Tenthredo* (*Allantus*) *luridiventris*, *Klug, Berl. Mag.* viii. p. 59, n. 27 (1818).

*Hab.* Germany.

10. *Monophadnus nigripes*.

*Tenthredo* (*Allantus*) *nigripes*, *Klug, Berl. Mag.* viii. p. 58, n. 26 (1818).

*Monophadnus nigripes*, *Costa, Faun. Nap., Tentr.* p. 51, pl. lxviii. fig. 3 (1859).

*Hab.* Central Europe.

|            |          |                 |
|------------|----------|-----------------|
| a. ♀.      | Britain. | J. F. Stephens. |
| b, c. ♂ ♀. | Germany. | J. F. Ruthe.    |
| d. ♀.      | Munich.  | H. Buchecker.   |

11. *Monophadnus coronata*.

*Monophadnus coronata*, *André, Spec. Hym.* i. p. 585 (1881).

*Hab.* Marseilles.

12. *Monophadnus bipartitus*.

*Tenthredo bipartita*, *St.-Farg. Mon. Tenth.* p. 104, n. 296 (1823); *Faun. Franç.* p. 47, pl. vii. fig. 3.

*Monophadnus pleuriticus*, *Costa, Faun. Nap., Tentr.* p. 50, pl. lxviii. fig. 2 (1859).

*Hab.* France; Italy.

13. *Monophadnus croceiventris*.

*Tenthredo* (*Allantus*) *croceiventris*, *Klug, Berl. Mag.* viii. p. 59, n. 28 (1818).

*Hab.* Germany, Austria.

|       |         |               |
|-------|---------|---------------|
| a. ♀. | Munich. | H. Buchecker. |
|-------|---------|---------------|

14. *Monophadnus albipes*.

*Tenthredo albipes*, *Gmel. Syst. Nat.* i. pt. 5, p. 55, n. 107 (1789).

*Tenthredo* (*Allantus*) *albipes*, *Klug, Berl. Mag.* viii. p. 67, n. 44 (1818).

*Tenthredo morio*, *Rossi, Faun. Etr.* ii. p. 30, n. 728 (1790).

*Tenthredo pallescens*, *Gmel. Syst. Nat.* i. pt. 5, p. 56, n. 128 (1789).

*Selandria albipes*, *Vollenh. Tijdschr. Ent.* xix. p. 270, pl. xii. (1876).

*Hab.* Europe.

|                                   |          |                 |
|-----------------------------------|----------|-----------------|
| a-c. ♀.                           | Britain. | J. F. Stephens. |
| d. ♀. (As <i>B. cinereipes</i> .) | Britain. | J. F. Stephens. |
| e-l. ♀.                           | Germany. | J. F. Ruthe.    |
| m. ♀.                             | Munich.  | H. Buchecker.   |
| n. ♀.                             | Zurich.  | H. Buchecker.   |



15. *Monophadnus emarginatus*.

*Blennocampa emarginata*, *Thoms. Hym. Scand.* i. p. 217 (1871).

*Hab.* Sweden.

16. *Monophadnus semicinctus*.

*Tenthredo semicincta*, *Hart. Blattw.* p. 272, n. 24 (1837).

*Hab.* Germany.

17. *Monophadnus monticola*.

*Tenthredo monticola*, *Hart. Blattw.* p. 273, n. 25 (1837).

*Hab.* Germany, Switzerland.

a. ♀.

Zurich.

H. Buchecker.

18. *Monophadnus exarmatus*.

*Blennocampa exarmata*, *Thoms. Hym. Scand.* i. p. 207 (1871).

*Blennocampa monticola*, *Thoms. Opusc. Ent.* ii. p. 279, n. 3 (1870).

*Hab.* Sweden.

19. *Monophadnus iridis*.

*Monophadnus iridis*, *Kaltenbach, Verh. Ver. Rheinl.* xix. p. 60 (1862);  
*id. Pflanzenfeinde*, p. 717 (1871).

*Hab.* Germany.

20. *Monophadnus bipunctatus*.

*Tenthredo (Allantus) bipunctata*, *Klug, Berl. Mag.* viii. p. 215, n. 172 (1818).

*Tenthredo bipunctata*, *Hart. Blattw.* p. 273 (1837).

*Hab.* Europe.

a. ♀.

Britain.

J. F. Stephens.

b. ♀.

Germany.

J. F. Ruthe.

c. ♀.

Aix-la-Chapelle.

Prof. A. Förster.

d. ♀.

Munich.

H. Buchecker.

e. ♀.

Zurich.

H. Buchecker.

21. *Monophadnus brunneiventris*.

*Tenthredo brunniventris*, *Hart. Blattw.* p. 274, n. 27 (1837).

*Hab.* Germany.

22. *Monophadnus thoracicus*.

*Monophadnus thoracicus*, *Tischb. Stett. ent. Zeit.* xiii. p. 107 (1852).

*Hab.* Dalmatia.

23. *Monophadnus rufoniger*.

*Monophadnus rufoniger*, *Tischb. Stett. ent. Zeit.* xiii. p. 108 (1852).

*Hab.* Hungary.

24. *Monophadnus inquilinus*.

*Monophadnus inquilinus*, Förster, *Stett. ent. Zeit.* v. p. 262 (1844).

*Hab.* Aix-la-Chapelle.

25. *Monophadnus funereus*.

*Tenthredo* (*Allantus*) *funerea*, Klug, *Berl. Mag.* viii. p. 74, n. 49 (1818).

*Hab.* Harz.

26. *Monophadnus gagathinus*.

*Tenthredo* (*Allantus*) *gagathina*, Klug, *Berl. Mag.* viii. p. 74, n. 58 (1818).

*Hab.* Central Europe.

*a-f.* ♂ ♀.  
*g.* ♀.

Germany.  
Zurich.

J. F. Ruthe.  
H. Buchecker.

27. *Monophadnus hylotomoides*.

*Tenthredo hylotomoides*, St.-Farg. *Mon. Tenth.* p. 107, n. 304 (1823).

*Hab.* France.

28. *Monophadnus planus*.

*Tenthredo* (*Allantus*) *plana*, Klug, *Berl. Mag.* viii. p. 214, n. 171 (1818).

*Hab.* Central Europe.

*a* ♂.

Europe.

29. *Monophadnus geniculatus*.

*Tenthredo geniculata*, Hart. *Blattw.* p. 274, n. 31 (1837).

♂. *Tenthredo longicornis*, Hart. *Blattw.* p. 275, n. 32 (1837).

*Hab.* Germany.

*a.* ♀.  
*b.* ♀.

Aix-la-Chapelle.  
Zurich.

Prof. A. Förster.  
H. Buchecker.

30. *Monophadnus gracilicornis*.

*Selandria gracilicornis*, Zadd. *Beschr. Blattw.* p. 34, fig. 16 (1859).

*Hab.* Königsberg.

31. *Monophadnus sericans*.

*Tenthredo sericans*, Hart. *Blattw.* p. 275, n. 33 (1837).

*Tenthredo* (*Allantus*) *elongatula* ♀, Klug, *Berl. Mag.* viii. p. 214, n. 170 (1818).

? *Tenthredo canescens*, Gmel. *Syst. Nat.* i. pt. v. p. 2666, n. 112 (1789).

*Hab.* Germany, Switzerland.

*a.* ♂.

Zurich.

H. Buchecker.

32. *Monophadnus ruficruris*.

*Selandria ruficruris*, *Brullé, Expéd. Scient. de Morée*, iii. 1, pt. 2, p. 393 (1832).

*Selandria ruficruris*, *Zadd. Besch. Blattw.* p. 35 (1859).

*Hab.* Morea ; Dalmatia ; Danzig.

33. *Monophadnus feriatu*s.

*Selandria feriatu*, *Zadd. Besch. Blattw.* p. 35 (1859).

*Hab.* Königsberg.

34. *Monophadnus micans*.

*Tenthredo* (*Allantus*) *micans*, *Klug, Berl. Mag.* viii. p. 65, n. 40 (1818).

*Hab.* Germany.

35. *Monophadnus nigritu*s.

*Tenthredo nigrita*, *Fabr. Syst. Piez.* p. 39, n. 47 (1805).

*Hylotoma nigrita*, *Fallén, Vetensk. Handl.* xxviii. p. 203, n. 18 (1807).

*Tenthredo* (*Allantus*) *nigerrima*, *Klug, Berl. Mag.* viii. p. 65, n. 28 (1818).

*Hab.* Europe.

*a, b.* ♀.

Britain.

J. F. Stephens.

*c.* ♀.

Kingsbridge.

*d-p.* ♂ ♀.

Germany.

J. F. Ruthe.

36. *Monophadnus brevicornis*.

*Tenthredo* (*Allantus*) *brevicornis*, *Klug, Berl. Mag.* viii. p. 65, n. 39 (1818).

*Hab.* Berlin.

37. *Monophadnus dissimilis*.

*Monophadnus dissimilis*, *Costa, Faun. Nap., Tentr.* p. 52, pl. lxix. figs. 3 & 4 (1859).

*Hab.* Naples.

38. *Monophadnus fuliginipennis*.

*Monophadnus fuliginipennis*, *Costa, Faun. Nap., Tentr.* p. 55, pl. lxix. fig. 5 (1859).

*Hab.* Italy.

39. *Monophadnus pubescens*.

*Selandria pubescens*, *Zadd. Besch. Blattw.* p. 31, fig. 13 (1859).

*Hab.* Königsberg.

40. *Monophadnus japonicus*.

(Plate VIII. fig. 5.)

*Selandria nigriceps*, *Smith (nec Spin.)*, *Trans. Ent. Soc.* 1874, p. 376.  
*Monophadnus iaponicus*, *Möcs. Term. füzetek*, iv. p. 268 (1880).

Exp. al.  $7\frac{1}{2}$  lin., long. corp.  $3\frac{1}{2}$  lin.

Pale luteous; head and antennæ black; the latter rather short and thick; thorax darker than the abdomen, with a blackish spot on the frontal lobe; region of the scutellum dusky; wings smoky hyaline, rather clearer towards the extremities, nervures piceous. Undersurface with the middle of the pectus as far as the base of the middle pair of legs violet-black; abdomen and legs pale luteous; coxæ in part violet-black; extremities of hind tibiæ dusky.

*Hab.* Japan.

*a, b. ♀.* (Types of *S. nigriceps*.)                      Hiogo.                      G. Lewis, Esq.

41. *Monophadnus lewisii*.

(Plate VIII. fig. 4.)

Very similar to *M. japonicus*, but a trifle smaller. Colour warmer luteous, the region of the scutellum dusky; thorax darker than the abdomen; undersurface (coxæ included) uniform luteous; tibiæ, except at base, and all the tarsi black; otherwise as in *M. japonicus*.

*Hab.* Japan.

*a. ♀.* (Type of species.)                      Hiogo.                      G. Lewis, Esq.

42. *Monophadnus rufus*.

(Plate VIII. fig. 6.)

*Monophadnus rufus*, *Cameron*, *Trans. Ent. Soc.* 1876, p. 461.

Exp. al. 7 lin., long. corp. 4 lin.

Reddish, shining; ocelli, more or less of the antennæ, hinder part of thorax (sometimes also the middle) and base of abdomen black, hind tarsi blackish at the extremity; pectus black in one specimen. Wings dusky hyaline, iridescent, clearer at the extremities.

*Hab.* China.

*a, b. ♀.* (Types of species.)                      Shanghai.                      R. Fortune.  
*c. ♀.*                      Hong Kong.                      J. C. Bowring.

B. *North- and Central-American Species.*43. *Monophadnus cordigera*.

*Tenthredo cordigera*, *Beauv. Ins. Afr. Amér.* p. 97, *Hym.* pl. ix. fig. 4 (1805).

*Allantus barda*, *Say, Bost. Journ.* i. p. 218 (1835).

*Selandria barda*, *Nort. Proc. Bost. Soc.* viii. p. 220 (1861); *id. Trans. Amer. Ent. Soc.* i. p. 247 (1867).

*Selandria dubia*, *Cress. Proc. Ent. Soc. Phil.* iv. p. 264 (1835); *Nort. Trans. Amer. Ent. Soc.* i. p. 248 (1867).

*Hab.* America.

a, b. ♂ ♀.

c. ♀.

d, e. ♀.

Mexico.

Venezuela.

Brazil\*.

M. Sallé.

J. W. Birschell.

W. Swainson.

#### 44. *Monophadnus mexicanus*.

*Selandria mexicana*, *Nort. Trans. Amer. Ent. Soc.* i. p. 248 (1867).

*Hab.* Tampico, Mexico.

#### 45. *Monophadnus fascipennis*.

*Selandria fascipennis*, *Nort. Trans. Amer. Ent. Soc.* iv. p. 84 (1872).

*Hab.* Mexico.

#### 46. *Monophadnus marginicollis*.

*Selandria marginicollis*, *Nort. Proc. Bost. Soc.* viii. p. 220 (1861); *id. Trans. Amer. Ent. Soc.* i. p. 249 (1867).

*Hab.* United States.

#### 47. *Monophadnus dilutus*.

*Selandria diluta*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 12 (1880).

*Hab.* Canada; Missouri.

#### 48. *Monophadnus ochra*.

*Selandria ochra*, *Nort. Trans. Amer. Ent. Soc.* i. p. 249 (1867).

*Hab.* Cordova, Mexico.

#### 49. *Monophadnus rubi*.

*Selandria* (*Hoplocampa*) *rubi*, *Harr. Address at New Darling, New Haven*, 1845, p. 13; *New Engl. Farm.* i. p. 164, ii. p. 33 (1850); *Nort. Proc. Bost. Soc.* vii. p. 235 (1861), viii. p. 221 (1861); *id. Trans. Amer. Ent. Soc.* i. p. 249 (1867).

*Hab.* United States.

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\* The Brazilian specimens are larger; but I can find no satisfactory character by which to separate them from the others. The species is common in the United States, and varies considerably.

50. *Monophadnus hudsonicus*.

(Plate VIII. fig. 7.)

Exp. al. 5 lin., long. corp. 2 lin.

Black ; antennæ rather short and stout ; collar, tegulæ, segments 3-6 of abdomen above, and a line down the middle beneath rufo-testaceous. Legs rufous, the four front legs paler than the hind pair ; coxæ and base of femora black. Wings hyaline.

This species must be closely allied to *M. rubi*, but appears to differ in the coloration of the legs and abdomen.

*Hab.* Hudson's Bay.*a.* ♂. (Type of species.) St. Martin's Falls, Albany River. Dr. Barnston.51. *Monophadnus nigellus*.*Selandria nigella*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 12 (1880).*Hab.* Nevada.52. *Monophadnus medius*.*Selandria medius*, *Norton, Proc. Ent. Soc. Phil.* iii. p. 9 (1864) ; *id. Trans. Amer. Ent. Soc.* i. p. 250 (1867).*Hab.* New Jersey.53. *Monophadnus irrogatus*.*Selandria irrogata*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 13 (1880).*Hab.* Colorado.54. *Monophadnus tilix*.*Selandria tilix*, *Norton, Proc. Bost. Soc.* viii. p. 221 (1861) ; *id. Trans. Amer. Ent. Soc.* i. p. 250 (1867).*Hab.* North America.*a.* ♀.55. *Monophadnus caryæ*.*Selandria caryæ*, *Norton, Packard's Guide*, p. 224 (1868) ; *id. Trans. Amer. Ent. Soc.* iv. p. 83 (1872).*Hab.* Connecticut.56. *Monophadnus longipennis*.*Selandria longipennis*, *Norton, Trans. Amer. Ent. Soc.* iv. p. 84 (1872).*Hab.* Mexico.

57. *Monophadnus inæquidens*.

*Selandria inæquidens*, *Nort. Trans. Amer. Ent. Soc.* iv. p. 84 (1872).

*Hab.* Texas.

58. *Monophadnus rileyi*.

*Selandria rileyi*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 13 (1880).

*Hab.* Missouri.

59. *Monophadnus parvus*.

*Selandria parva*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 13 (1880).

*Hab.* United States.

a. ♀.

Connecticut\*.

60. *Monophadnus scelestus*.

*Selandria scelesta*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 14 (1880).

*Hab.* Colorado, Nevada.

61. *Monophadnus lineatus*.

(Plate VIII. fig. 9.)

Exp. al. 7 lin., long. corp. 3 lin.

Dull reddish or chestnut colour; head and antennæ black; face, collar, tegulæ, and a small spot on the pleura adjoining whitish or pale yellowish (thorax and pleura sometimes blackish); first segment of the abdomen bisected by a pale line above, and all the segments narrowly bordered behind with pale lines, both above and below, but most broadly on the sides, where the lines are turned forwards at a right angle; extremities of coxæ and trochanters whitish or yellowish, always paler than the rest of the legs.

*Hab.* Hudson's Bay.

a, b. ♀. (Types of species.)

St. Martin's Falls,  
Albany River.

Dr. Barnston.

62. *Monophadnus scutellatus*.

(Plate VII. fig. 18.)

Exp. al. 9 lin., long. corp. 4 lin.

Testaceous; antennæ above, except the basal joint, a large spot enclosing ocelli, two long spots, united behind, in the middle of the mesothorax, two smaller ones, on each side of the very large square

\* "*Robur*, Cress. Feeds on evergreen-oak in July."—MS. note attached to specimen.

scutellum, two short stripes behind the scutellum and a spot on each side of the second; a band divided in the middle in front of the first segment of the abdomen, a short depressed dash in the middle of the second, and a wide band on segments 4-8, all black. Legs rufo-testaceous; basal half of hind tibiæ and first joint of hind tarsi paler. Wings yellowish hyaline, with yellowish nervures. Antennæ and legs pubescent.

*Hab.* Mexico.

*a.* ♀. (Type of species.)

Orizaba.

M. Sallé.

### 63. *Monophadnus erebus*.

(Plate VIII. fig. 10.)

*Exp.* al. 7 lin., long. corp. 3 lin.

Black, smooth, shining; cenchri and knees whitish. Wings brownish subhyaline, darkest at the base of fore wings, and iridescent.

*Female* dull black. In the Mexican specimen the anterior legs are paler. Antennæ stout and somewhat compressed.

*Hab.* Mexico; South America.

*a-c.* ♂ ♀. (Types of species.)

Pará.

H. W. Bates, Esq.

*d.* ♀.

Mexico.

E. P. Coffin.

### C. *Indian Species*.

### 64. *Monophadnus cærulescens*.

(Plate VIII. fig. 8.)

*Monophadnus cærulescens*, *Cameron, Trans. Ent. Soc.* 1876, p. 461.

*Exp.* al. 8 lin., long. corp. 4 lin.

Blue-black, closely punctured; antennæ rather stout, pubescent; third joint considerably longer than fourth; cenchri large, white. Abdomen bright purple, with a slight reddish shine. Wings clear hyaline, with the apical half of the fore wings dusky; nervures piceous.

*Hab.* Nepal.

*a.* ♂. (Type of species.)

Nepal.

Gen. Hardwicke.

### D. *South-American Species*.

### 65. *Monophadnus thoracicus*.

(Plate VIII. fig. 12.)

*Exp.* al. 7 lin. long. corp. 3 lin.

Head and abdomen black; thorax and scutellum rufo-testaceous,



a black spot in front of the former; pectus testaceous; a white ring in front of the anterior coxæ enclosing a blackish space marked with two white spots; anterior legs testaceous; femora blackish at base beneath; intermediate legs piceous; hind legs black. Wings smoky hyaline.

Appears to be allied to *M. mexicanus*.

*Hab.* Amazons.

*a-c.* ♂ ♀. (Types of species.) Santarem. H. W. Bates, Esq.

### 66. *Monophadnus punctatus*.

(Plate VIII. fig. 11.)

*Exp. al.* 10 lin., *long. corp.* 4 lin.

Black; thorax, pectus, and base of abdomen shining rufo-testaceous; antennæ similar to those of *M. barda* &c., but more pubescent. Wings rather long; fore wings smoky brown, with the black spot in the second submarginal cell very distinct; hind wings clearer.

*Hab.* Brazil.

*a.* ♀. (Type of species.) Pará. H. W. Bates, Esq.

### 67. *Monophadnus paranus*.

(Plate VIII. fig. 13.)

*Exp. al.*  $6\frac{1}{2}$  lin., *long. corp.* 3 lin.

Testaceous, shining; head black above; the antennæ, which are also black, except the two basal joints, thickened and pubescent; hind tibiæ and tarsi black, the intermediate ones dusky. Wings hyaline, slightly yellow at base; costa and stigma yellowish, the former bordered in front with a row of short bristles.

*Hab.* Brazil.

*a.* ♂. (Type of species.) Pará. G. Grahame, Esq.

### 68. *Monophadnus batesii*.

(Plate VIII. fig. 14.)

*Exp. al.* 9 lin., *long. corp.* 3 lin.

Shining luteous; head (except clypeus and labrum), antennæ, three large and nearly contiguous spots on thorax, and the two apical segments of abdomen black. Wings hyaline (yellowish on fore wings), with yellow and piceous nervures; costal cell and stigma yellow; apical third of wings clouded.

*Hab.* Amazons.

*a.* ♀. (Type of species.) Amazons. H. W. Bates, Esq.

69. *Monophadnus* (?) *nigriceps*.

*Tenthredo nigriceps*, *Spinola, Mem. Accad. Torino* (2), xiii. p. 25 (1853).

*Hab.* Pará.

70. *Monophadnus* (?) *nigripennis*.

*Tenthredo nigripennis*, *Fabr. Syst. Piez.* p. 38, n. 43 (1804).

*Hab.* South America.

71. *Monophadnus atripennis*.

*Hylotoma atripennis*, *Fabr. Syst. Piez.* p. 27, n. 26 (1804); *Klug Wiedem. Zool. Mag.* i. pt. 3, p. 72, pl. ii. fig. 3 (1819).

*Hab.* South America.

67. **XENAPATES.**

Affinities doubtful; resembles *Monophadnus* in appearance. Head very large, as broad or broader than the thorax, and much extended behind the eyes, as in *Strongylogaster*; clypeus small and deeply incised; labrum large, hairy. Antennæ as long as the head and thorax, moderately stout and very pilose; second joint shorter than the first; the third longest. Abdomen nearly as wide as the thorax, not very long, and of equal breadth throughout. Fore wings with two marginal and four submarginal cells; lanceolate cell petiolated: hind wings with two middle cells.

1. *Xenapates africanus*.

(Plate VIII. fig. 2.)

*Dineura* (?) *africana*, *Cameron, Trans. Ent. Soc.* 1876, p. 470.

Exp. al. 7 lin., long. corp. 3 lin.

Black above; cenchri white; abdomen shining, shading into mahogany colour in the middle, and tinted with violet. Head below the antennæ (mandibles excepted), abdomen beneath, and legs waxen white; four hind tibiæ and tarsi darker above; sides of collar, a spot behind below the first pair of wings, and another on the sides of the pectus below the second pair, whitish. Wings fuscohyaline.

*Hab.* Sierra Leone.

*a.* ♂. (Type of species.)

Sierra Leone.

Rev. D. F. Morgan.

## 68. POMPHOLYX.

Pompholyx, *Freymuth, Protocole 47<sup>m</sup>e séance Soc. d'antr. Mosc. Jan. 29, viii. p. 216 (1870).*

## 1. Pompholyx dimorpha.

Pompholyx dimorpha, *Freymuth, Protocole 47<sup>m</sup>e séance Soc. d'antr. Mosc. Jan. 29, viii. p. 217 (1870).*

*Hab.* Samarcand.

## 69. SENOCLIA.

Senoclia, *Cameron, Trans. Ent. Soc. 1877, p. 88, note.*

Anisoarthra, *Cameron, Trans. Ent. Soc. 1876, p. 461, nom præocc.*

"Antennæ covered with long depressed hairs, with third and fourth joints equal, a little dilated at apex; fifth a little longer than the fourth, also dilated at apex; sixth nearly a fourth shorter than the fifth, still more dilated at apex, and sharply cut off from seventh, which is much shorter than sixth; two apical joints a little shorter than seventh. Clypeus smooth, straight at apex. Alar neurulation of *Monophadnus*; marginal nervure received a little past middle of third submarginal; posterior wings with one middle cellule. Scutellum raised, conspicuous, smooth and shining." (*Cameron.*)

## 1. Senoclia cærulea.

(Plate VIII. figs. 20 & 21.)

Anisoarthra cærulea, *Cameron, Trans. Ent. Soc. 1876, p. 462.*

Exp. al. 8–10 lin., long. corp. 4–5 lin.

"*Female.* Blue, shining. Head and thorax pilose. Antennæ shorter than abdomen. Terebra projecting, hairy. Spurs long. Wings bluish black, iridescent; costa and stigma bluish black. *Male* similar, but with longer antennæ, and wings clearer at base." (*Cameron.*)

The eyes are large and whitish, and the fore wings are strongly flushed with blue; all the basal cells clear in the male as far as the lanceolate cell, and all opaque in the female.

*Hab.* Ceylon.

*a, b.* ♂ ♀. (Types of species.)

Ceylon.

Dr. Thwaites.

## 2. Senoclia purpurata.

(Plate VIII. fig. 19.)

Tenthredo (Allantus) purpurata, *Smith, Journ. Linn. Soc., Zool. iv. p. 23 (1860).*

Anisoarthra cyanella, *Cameron, Trans. Ent. Soc. 1876, p. 462.*

Size of *S. cœrulea*. "Bluish black, shining, pubescent; colour with a purplish tinge; wings darker, third submarginal cellule shorter;" fore wings with the costal cell, and that only, clear in both sexes; eyes brown; "antennæ shorter, more thickened towards the apex, the three apical joints not being so sharply cut off from the preceding, and the anterior feet are pale in front. In the male the antennæ are shorter, more thickened towards the apex; posterior wings darker. The antennæ look not unlike those of *Athalia*." (*Cameron*.)

*Hab.* Celebes; New Guinea.

|                                      |             |                     |
|--------------------------------------|-------------|---------------------|
| <i>a-c.</i> ♂ ♀. (Types of species.) | Celebes.    | A. R. Wallace, Esq. |
| <i>d.</i> ♂.                         | New Guinea. | A. R. Wallace, Esq. |

### 3. *Senoclia* (?) *doryca*.

*Selandria doryca*, *Smith, Journ. Linn. Soc., Zool.* v. p. 136 (1861).

*Hab.* Batchian.

## 70. CALIROA.

*Caliroa*, *Costa, Faun. Nap., Tentr.* p. 59 (1859).

### 1. *Caliroa candidata*.

*Tenthredo* (*Allantus*) *repanda*, *Klug, Berl. Mag.* viii. p. 77, n. 64 (1818).

*Tenthredo candidata*, *Fallén, Vetensk. Handl.* xxix. p. 105, n. 40 (1808).

*Selandria candidata*, *Vollenh. Tijdschr. Ent.* xix. p. 258, pl. x. (1876).

*Hab.* Europe.

|              |          |              |
|--------------|----------|--------------|
| <i>a.</i> ♀. | Germany. | J. F. Ruthe. |
|--------------|----------|--------------|

### 2. *Caliroa crassicornis*.

*Eriocampa crassicornis*, *Tischb. Stett. ent. Zeit.* vii. p. 113 (1846).

*Hab.* Germany.

### 3. *Caliroa tristis*.

*Tenthredo tristis*, *St.-Farg. Mon. Tenth.* p. 106, n. 303 (1823).

*Caliroa sebetia*, *Costa, Faun. Nap., Tentr.* p. 59, pl. lxx. fig. 6 (1859).

*Hab.* Naples.

### 4. *Caliroa obsoleta*.

*Selandria obsoletum*, *Nort. Trans. Amer. Ent. Soc.* i. p. 254 (1867).

*Hab.* Massachusetts.

## 71. ERIOCAMPA.

*Eriocampa*, *Hart. Blattw.* p. 279 (1837).

1. *Eriocampa annulipes*.

*Tenthredo* (*Allantus*) *annulipes*, *Klug, Berl. Mag.* viii. p. 70, n. 49 (1818).

*Selandria annulipes*, *Vollenh. Tijdschr. Ent.* x. p. 178, n. 9 (1867).

*Hab.* Central Europe.

|                  |          |                 |
|------------------|----------|-----------------|
| <i>a.</i> ♀.     | Britain. | J. F. Stephens. |
| <i>b.</i> ♀.     | Britain. |                 |
| <i>c-f.</i> ♂ ♀. | Germany. | J. F. Ruthe.    |

2. *Eriocampa varipes*.

*Tenthredo* (*Allantus*) *varipes*, *Klug, Berl. Mag.* viii. p. 69, n. 47 (1818).

*Hab.* Europe.

|                  |          |               |
|------------------|----------|---------------|
| <i>a, b.</i> ♀.  | Germany. | J. F. Ruthe.  |
| <i>c-e.</i> ♂ ♀. | Munich.  | H. Buchecker. |

3. *Eriocampa cixia*.

*Tenthredo* (*Allantus*) *cixia*, *Klug, Berl. Mag.* viii. p. 69, n. 48 (1818).

*Tenthredo cixia*, *Hart. Blattw.* p. 280, n. 48 (1837).

*Hab.* Central Europe.

|                  |          |                 |
|------------------|----------|-----------------|
| <i>a-c.</i> ♀.   | Britain. | J. F. Stephens. |
| <i>d-i.</i> ♂ ♀. | Germany. | J. F. Ruthe.    |
| <i>k.</i> ♀.     | Zurich.  | H. Buchecker.   |

4. *Eriocampa caninæ*.

*Eriocampa caninæ*, *Cameron, Ent. M. M.* xiv. p. 267 (1878).

*Selandria æthiops*, *Westw. Ent. Ann.* 1858, p. 132.

*Eriocampa æthiops*, *Cameron, Ent. M. M.* xii. p. 192 (1876).

*Hab.* Britain.

|   |          |                 |
|---|----------|-----------------|
| <i>a-d.</i> ♂ ♀. (As <i>E. consorta</i> , <i>tristis</i> ,<br>and <i>picea</i> .) | Britain. | J. F. Stephens. |
|---|----------|-----------------|

5. *Eriocampa testaceipes*.

*Eriocampa testaceipes*, *Cameron, Ent. M. M.* xi. p. 128 (1874).

*Hab.* Scotland.

6. *Eriocampa adumbrata*.

*Tenthredo* (*Allantus*) *adumbrata*, *Klug, Berl. Mag.* viii. p. 64 n. 36 (1818).

*Selandria adumbrata*, *Vollenh. Tijdschr. Ent.* xxii. p. 1, pl. i. (1879)

*Hab.* Europe.

|                 |          |                 |
|-----------------|----------|-----------------|
| <i>a-f.</i> ♀.  | Britain. | J. F. Stephens. |
| <i>g-k.</i> ♀.  | Germany. | J. F. Ruthe.    |
| <i>l, m.</i> ♀. | Munich.  | H. Buchecker.   |

7. *Eriocampa soror*.

*Selandria soror*, *Vollenh. Tijdschr. Ent.* xii. p. 123 (1869).

*Hab.* Holland.

8. *Eriocampa umbratica*.

*Tenthredo* (*Allantus*) *umbratica*, *Klug, Berl. Mag.* viii. p. 63, n. 35 (1818).

*Hab.* Central Europe.

*a-c.* ♂ ♀.

Germany.

J. F. Ruthe.

9. *Eriocampa ovata*.

*Tenthredo ovata*, *Linn. Faun. Suec.* p. 392 (1761); *Panz. Faun. Germ.* Heft 52, pl. iii. (1798).

*Selandria ovata*, *Vollenh. Tijdschr. Ent.* vi. p. 81, pl. vii. (1863).

*Tenthredo* (*Allantus*) *ovata*, *Klug, Berl. Mag.* viii. p. 62, n. 34 (1818).

*Tenthredo leucogona*, *Schrank, Fauna Boica*, ii. pt. 2, p. 251, n. 2036 (1802).

*Tenthredo gossypina*, *Retz. Gen. Spec. Ins.* p. 72, n. 303 (1783).

*Hab.* Europe.

*a-g.* ♀.

Britain.

J. F. Stephens.

*h, i.* ♀.

Britain.

*k-r.* ♀.

Germany.

J. F. Ruthe.

*s-u.* ♀.

Italy.

W. E. Leach.

*v-x.* ♀.

Munich.

H. Buchecker.

10. *Eriocampa phthisica*.

*Selandria phthisica*, *Vollenh. Tijdschr. Ent.* xii. p. 123, pl. iii. fig. 4 (1869).

*Hab.* Holland.

11. *Eriocampa livonensis*.

*Eriocampa livonensis*, *Gimm. Stett. ent. Zeit.* v. p. 38 (1844).

*Hab.* Riga.

12. *Eriocampa albomarginata*.

*Selandria albomarginata*, *Vollenh. Bouwst. Faun. Ned.* ii. p. 278 (1858).

*Hab.* Holland.

13. *Eriocampa marginata*.

*Eriocampa marginata*, *Puls, Ann. Ent. Belg.* xiii. p. 148 (1870).

*Hab.* Caucasus.

14. *Eriocampa cerasi*.

*Tenthredo cerasi*, *Peck, Mass. Agric. Rep.* 1799, pp. 9-20, plate.  
*Selandria* (*Blennocampa*) *cerasi*, *Harr. Ins. Mass.* p. 383 (1841).  
*Selandria cerasi*, *Nort. Proc. Bost. Soc.* viii. p. 222 (1862); *id. Trans. Amer. Ent. Soc.* i. p. 254 (1867).

*Hab.* United States.

15. *Eriocampa fasciata*.

*Selandria fasciatus*, *Nort. Proc. Ent. Soc. Phil.* iii. p. 9 (1864); *id. Trans. Amer. Ent. Soc.* i. p. 256 (1867).

*Hab.* United States.

16. *Eriocampa bengalensis*.

(Plate VIII. fig. 17.)

*Monophadnus bengalensis*, *Cameron, Trans. Ent. Soc.* 1876, p. 461.

Exp. al. 10 lin., long. corp. 5 lin.

Blue-black; abdomen rather brighter, palpi and legs white, base of coxæ, tips of femora and of hind tibiæ, and hind tarsi blue-black. Clypeus rounded; face very hairy; antennæ broken, but third joint distinctly longer than fourth. Saw unusually prominent; cenchri white, triangular. Fore wings dusky hyaline, with piceous nervures; base clearer; lanceolate cell with oblique cross-nervure, but the anal nervure runs so near the inner margin that the cell appears petiolated at first sight: hind wings hyaline, clouded at apex; a small dot in the second submarginal cell.

*Hab.* Bengal.

a. ♀. (Type of species.) Bengal.

## 72. MONOSTEGIA.

*Monostegia*, *Costa, Faun. Nap., Tentr.* p. 58 (1859).

1. *Monostegia dolosa*.

*Tenthredo dolosa*, *Eversm. Bull. Mosc.* xx. p. 33 (1847).

*Hab.* South Russia.

2. *Monostegia luteola*.

*Tenthredo* (*Allantus*) *luteola*, *Klug, Berl. Mag.* viii. p. 48, n. 9 (1818).  
*Monostegia luteola*, *Costa, Faun. Nap., Tentr.* p. 58, pl. lxx. fig. 1 (1859).

*Hab.* Europe.

a. ♀.  
 b-h. ♂ ♀.  
 i, k. ♀.  
 l. ♀.

Britain.  
 Germany.  
 Munich.  
 Zurich.

J. F. Stephens.  
 J. F. Ruthe.  
 H. Buchecker.  
 H. Buchecker.

3. *Monostegia nitida*.

*Eriocampa nitida*, *Tischb. Stett. ent. Zeit.* vii. p. 113 (1846).

*Hab.* Germany, Switzerland.

|       |         |               |
|-------|---------|---------------|
| a. ♂. | Munich. | H. Buchecker. |
| b. ♀. | Zurich. | H. Buchecker. |

4. *Monostegia rosæ*.

*Selandria rosæ*, *Harr. Ins. Mass.* p. 380 (1841); *Nort. Proc. Bost. Soc.* viii. p. 223 (1862); *id. Trans. Amer. Ent. Soc.* i. p. 256 (1867).

*Hab.* United States.

a. ♀.

5. *Monostegia ignotus*.

*Monostegia ignotus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 257 (1867).

*Hab.* United States.

6. *Monostegia quercus-alba*.

*Selandria quercus-alba*, *Nort. Trans. Amer. Ent. Soc.* i. p. 258 (1867), iv. p. 85 (1872).

*Hab.* Connecticut.

a. ♀.

7. *Monostegia obscurata*.

*Selandria obscurata*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 15 (1880).

*Hab.* Colorado.

8. *Monostegia belfragei*.

*Selandria belfragei*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 15 (1880).

*Hab.* Texas.

9. *Monostegia antipoda*.

(Plate VIII. fig. 3.)

*Monostegia antipoda*, *Kirby, Trans. Ent. Soc.* 1881, p. 50.

Exp. al. 5 lin., long. corp. 3 lin.

Deep black; legs more or less testaceous; wings hyaline, with piceous nervures; an oblique shade below the stigma, most distinct towards the inner margin.

a, b. ♀. (Types of species.)      New Zealand.      C. M. Wakefield, Esq.

## 73. SELANDRIA.

*Selandria*, *Leach, Zool. Misc.* iii. p. 126 (1817); *Hart. Blattw.* pp. 263, 281 (1837).



1. *Selandria serva*.

*Tenthredo serva*, *Fabr. Ent. Syst.* ii. 1, p. 109, n. 21 (1793).

*Tenthredo* (*Allantus*) *serva*, *Klug, Berl. Mag.* viii. p. 47, n. 1 (1818).

*Tenthredo lepida*, *St.-Farg. Mon. Tenth.* p. 104, n. 295 (1823).

*Hab.* Europe.

|                  |          |                 |
|------------------|----------|-----------------|
| <i>a-d.</i> ♀.   | Britain. | J. F. Stephens. |
| <i>e-k.</i> ♀.   | Germany. | J. F. Ruthe.    |
| <i>l-r.</i> ♂ ♀. | Munich.  | H. Buchecker.   |

2. *Selandria dorsalis*.

(Plate VIII. fig. 15.)

*Selandria dorsalis*, *Steph. Ill. Brit. Ent., Mand.* i. p. 45 (1835).

*Selandria grandis*, *Zadd. Besch. Blattw.* p. 36 (1859).

*Selandria sixii*, *Vollenh. Bouwst. Faun. Ned.* ii. p. 278 (1858); *id.* *Tijdschr. Ent.* xxii. p. 18, pl. iv. (1879).

*Selandria interstitialis*, *Thoms. Hym. Scand.* i. p. 237 (1871).

Exp. al. ♂ 7-8 lin., ♀ 11-12 lin.; long. corp. ♂ 3-4 lin., ♀ 5 lin.

Head, thorax, pectus, and basal segment of abdomen shining black; collar (and sides of thorax also in ♀), legs, and abdomen luteous; abdomen in male with a narrow black stripe in the front of each segment above. Wings yellowish hyaline, with the nervures yellow on the basal third of the wings and dark brown beyond; stigma edged below with yellow; second recurrent nervure interstitial, and in the female sometimes even received within the second submarginal cell.

*Hab.* Central Europe.

|  |          |                 |
|--|----------|-----------------|
| <i>a-c.</i> ♂. (Types of species.)     | Britain. | J. F. Stephens. |
| <i>d, e.</i> ♀. (As <i>S. serva</i> .) | Britain. | J. F. Stephens. |
| <i>f.</i> ♂.                           | Britain. |                 |
| <i>g.</i> ♀.                           | Munich.  | H. Buchecker.   |

3. *Selandria flavens*.

*Tenthredo* (*Allantus*) *flavens*, *Klug, Berl. Mag.* viii. p. 48, n. 8 (1818).

*Tenthredo scapularis*, *St.-Farg. et Serv. Enc. Méth.* x. p. 569 (1825).

*Selandria flavescens*, *Thoms. Hym. Scand.* i. p. 237 (1871).

*Phyllotoma puella*, *Fall. Mon. Tenth.* p. 30 (1829).

*Hab.* Europe.

|                  |          |              |
|------------------|----------|--------------|
| <i>a-e.</i> ♂ ♀. | Germany. | J. F. Ruthe. |
|------------------|----------|--------------|

4. *Selandria socia*.

*Tenthredo socia*, *Klug, Berl. Mag.* viii. p. 49, n. 10 (1818).

*Hab.* Europe.

|                   |                                  |                        |
|-------------------|----------------------------------|------------------------|
| <i>a-g.</i> ♂ ♀.  | Britain.                         | J. F. Stephens.        |
| <i>h, i.</i> ♂ ♀. | Easton Maudit, Northamptonshire. | C. O. Waterhouse, Esq. |
| <i>k, l.</i> ♂ ♀. | England.                         | G. Taylor, Esq.        |
| <i>m-u.</i> ♂ ♀.  | Germany.                         | J. F. Ruthe.           |

5. *Selandria vollenhoveni*.

*Selandria vollenhoveni*, *Gribodo, Bull. Ent. Ital., Resoconti delle Adunanze*, 1880, p. 7, & xiii. p. 50 (1881).

*Hab.* Italy.

6. *Selandria stramineipes*.

*Tenthredo* (Allantus) *stramineipes*, *Klug, Berl. Mag.* viii. p. 75, n. 61 (1818).

*Tenthredo albipes*, *St.-Farg. Mon. Tenth.* p. 105, n. 299 (1823).

*Hab.* Europe.

|                  |          |                 |
|------------------|----------|-----------------|
| <i>a-o.</i> ♂ ♀. | Britain. | J. F. Stephens. |
| <i>p-x.</i> ♂ ♀. | Germany. | J. F. Ruthe.    |

7. *Selandria temporalis*.

*Selandria temporalis*, *Thoms. Hym. Scand.* i. p. 239 (1871).

*Hab.* Sweden.

8. *Selandria analis*.

*Selandria analis*, *Thoms. Hym. Scand.* i. p. 239 (1871).

*Selandria cereipes*, *Vollenh. Tijdschr. Ent.* xvi. p. 13, pl. iii. (1872).

*Hab.* Europe.

9. *Selandria morio*.

*Tenthredo morio*, *Fabr. Spec. Ins.* i. p. 414, n. 41 (1781).

*Tenthredo* (Allantus) *morio*, *Klug, Berl. Mag.* viii. p. 75, n. 60 (1818).

*Hab.* Europe.

|                   |          |                 |
|-------------------|----------|-----------------|
| <i>a, b.</i> ♀.   | Britain. | J. F. Stephens. |
| <i>c-s.</i> ♂ ♀.  | Germany. | J. F. Ruthe.    |
| <i>t-x.</i> ♂ ♀.  | Munich.  | H. Buchecker.   |
| <i>y-cc.</i> ♂ ♀. | Zurich.  | H. Buchecker.   |

10. *Selandria albomarginata*.

*Selandria albomarginata*, *Rudow, Stett. ent. Zeit.* xxxii. p. 395 (1871).

*Hab.* Dresden.

11. *Selandria virescens*.

*Selandria virescens*, *Rudow, Stett. ent. Zeit.* xxxii. p. 394 (1871).

*Hab.* Harz.

12. *Selandria aperta*.

*Tenthredo aperta*, *Hart. Blattw.* p. 282, n. 58 (1837).

*Selandria aperta*, *Thoms. Opusc. Ent.* ii. p. 240 (1870); *id. Hym. Scand.* i. p. 240 (1871).

*Hab.* Europe.

|                  |          |               |
|------------------|----------|---------------|
| <i>a-p.</i> ♂ ♀. | Germany. | J. F. Ruthe.  |
| <i>q, r.</i> ♀.  | Munich.  | H. Buchecker. |

13. *Selandria annulitarsis*.

*Selandria annulitarsis*, *Thoms. Opusc. Ent.* ii. p. 292 (1870); *id. Hym. Scand.* i. p. 240 (1871).

*Hab.* Sweden.

*a, b.* ♀.

Sweden\*.

14. *Selandria foveifrons*.

*Selandria foveifrons*, *Thoms. Opusc. Ent.* ii. p. 292 (1870); *id. Hym. Scand.* i. p. 240 (1871).

*Hab.* Sweden.

15. *Selandria flavipes*.

*Selandria flavipes*, *Nort. Proc. Bost. Soc.* viii. p. 222 (1861); *id. Trans. Amer. Ent. Soc.* i. p. 258 (1867).

*Hab.* United States.

*a.* ♀.

16. *Selandria ruficollis*.

*Selandria ruficollis*, *Nort. Trans. Amer. Ent. Soc.* i. p. 259 (1867).

*Hab.* Mexico.

17. *Selandria coccinata*.

*Selandria coccinata*, *Nort. Trans. Amer. Ent. Soc.* iv. p. 85 (1872).

*Hab.* Mexico.

18. *Selandria decolorata*.

*Selandria decolorata*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 15 (1880).

*Hab.* Colorado.

19. *Selandria curialis*.

*Selandria curialis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 15 (1880).

*Hab.* Mexico.

*a-d.* ♂ ♀.

Orizaba†.

M. Sallé.

20. *Selandria diversipes*.

(Plate VIII. fig. 22.)

Exp. al. 7 lin., long. corp. 4 lin.

Head (including mandibles), scutellum, part of metathorax, hinder

\* The specimens which I refer to this species were ticketed with the MS. name of *peletieri*, Dahlb.

† One specimen, apparently a male, has segments 2-4 of the abdomen dull testaceous on the sides above.

part of pectus, abdomen, intermediate and hind tarsi, and tips of hind tibiæ black; clypeus, labrum, palpi, thorax (except a black spot on the anterior lobe, and another before the front coxæ), cenchri, and legs waxen white. Eyes large, with a pale spot in front. Wings rather long, fore wings smoky hyaline; hind wings hyaline.

Allied to *S. curialis*, Cress.

*Hab.* Mexico.

*a.* ♀. (Type of species.)

Orizaba.

M. Sallé.

## 21. *Selandria glabra*.

(Plate VIII. fig. 23.)

Exp. al. 6 lin., long. corp. 3 lin.

Black; three first joints of antennæ, collar, prothorax beneath, a line at the extremity of the first segment of the abdomen above, the greater part of segments 2-4 and of the legs rufo-testaceous; second segment of abdomen with a black stripe in front; third segment with two small black dots, and fourth with two larger, nearly connected, black spots. Hind femora and apical third of hind tibiæ black; intermediate femora with a black line at base. Wings yellowish hyaline, with brown nervures, and yellowish costa and stigma.

*Hab.* Mexico.

*a.* ♂. (Type of species.)

Orizaba.

M. Sallé.

## 22. *Selandria inconspicua*.

(Plate VIII. fig. 24.)

Exp. al. 9 lin., long. corp. 4 lin.

Black; collar, legs, and segments 2 and 3 of the abdomen partly testaceous or whitish; four hind legs with the greater part of the femora and the extremities of the tibiæ black; segments 2 and 3 of the abdomen with a wide black band in front. Wings dull yellowish hyaline, with piceous nervures, and yellowish costa and stigma.

*Hab.* Mexico.

*a, b.* ♀. (Types of species.)

Orizaba.

M. Sallé.

## 23. *Selandria tripunctata*.

(Plate IX. fig. 3.)

Exp. al. 6 lin., long. corp. 3 lin.

Luteous; head above antennæ, antennæ, two longitudinal spots on the thorax and a spot on the frontal lobe, the three last segments of the abdomen and a spot on each side of the preceding, a large

spot in the middle of the pectus between the first two pairs of legs, and the terminal half of the hind tibiæ and all the hind tarsi black. Wings dusky hyaline; costa and stigma black, a dark cloud on the costa beyond the latter; hind wings clearer.

*Hab.* Amazons.

*a.* ♀. (Type of species.)                      Amazons.                      H. W. Bates, Esq.

#### 24. *Selandria batesii*.

(Plate IX. figs. 1 & 2.)

*Exp.* al. 6–7 lin., long. corp. 3 lin.

Luteous; head, centre of thorax in male, or a spot on the frontal lobe in the female, and the last two segments of the abdomen black; pectus with a black spot on each side in the male; all the legs black below the middle of the tibiæ. Wings smoky yellowish hyaline, with piceous nervures, costa, and stigma; hind wings clearer.

*Hab.* Amazons.

*a-c.* ♂ ♀. (Types of species.)                      Ega.                      H. W. Bates, Esq.

#### 25. *Selandria antennata*.

(Plate VIII. fig. 16.)

*Exp.* al. 7 lin., long. corp.  $3\frac{1}{2}$  lin.

Luteous; thorax darker above; abdomen beneath very pale, almost whitish. Antennæ black, very setose, the divisions of the three basal joints above, and of the others beneath, pale; the three apical joints much narrower than the others. Vertex black, as far as and surrounding the ocelli, which are white; a frontal spot on the thorax, tip of abdomen, the four hinder tarsi, and the hind tibiæ (except at base) black. Wings dusky hyaline, clouded at the base and tips; costa and stigma black.

*Hab.* Amazons.

*a.* ♂. (Type of species.)                      Amazons.                      H. W. Bates, Esq.

### Subfamily VIII. PHYLLOTOMINÆ.

#### 74. PHYLLOTOMA.

*Phyllotoma*, *Fallén*, *Mon. Tenth.* p. 25 (1829); *Hart. Blattw.* p. 254 (1837); *Cameron, Proc. N. H. Soc. Glasg.* ii. p. 317 (1875).

*Druida*, *Newm. Ent. Mag.* v. p. 484 (1838).

*Heterarthrus*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 94 (1835).

1. *Phyllotoma nemorata*.

*Tenthredo nemorata*, *Fallén, Vetensk. Handl.* xxix. p. 47, n. 23 (1808).  
*Druida parviceps*, *Newm. Ent. Mag.* iv. p. 261 (1837); *Healy, Ent.*  
 iv. p. 208 (1869).

*Phyllotoma tenella*, *Zadd. Besch. Blattw.* p. 28, fig. 17 (1859);  
*Vollenh. Tijdschr. Ent.* xviii. p. 39, pl. iv. (1875).

*Phyllotoma nemorata*, *Thoms. Hym. Scand.* i. p. 176 (1871); *Cam.*  
*Proc. N. H. Soc. Glasg.* ii. p. 317 (1875).

*Hab.* Europe.

a. ♀. (As *D. parviceps*.)

Britain.

J. F. Stephens.

2. *Phyllotoma leucomela*.

*Tenthredo* (*Emphytus*) *leucomela*, *Klug, Berl. Mag.* viii. p. 274, n. 183  
 (1818).

*Hab.* Silesia.

3. *Phyllotoma aceris*.

*Phyllotoma aceris*, *M'Lachl. Ent. M. Mag.* iv. p. 104 (1867); *Kal-*  
*tenbach, Pflanzenfeinde*, p. 91 (1871); *Cam. Proc. N. H. Soc. Glasg.*  
 ii. p. 318 (1875).

*Hab.* Europe.

4. *Phyllotoma pinguis*.

*Phyllotoma pinguis*, *Vollenh. Tijdschr. Ent.* xii. p. 121, pl. iii. fig. 3  
 (1869).

*Hab.* Holland.

5. *Phyllotoma ochropoda*.

*Tenthredo* (*Emphytus*) *ochropoda*, *Klug, Berl. Mag.* viii. p. 255  
 (1818).

*Phyllotoma ochropoda*, *Thoms. Opusc. Ent.* ii. p. 269 (1870); *id.*  
*Hym. Scand.* i. p. 117 (1871); *Cam. Proc. N. H. Soc. Glasg.* ii.  
 p. 318 (1875).

*Hab.* Europe.

a-d. ♀.

Germany.

J. F. Ruthe.

6. *Phyllotoma vagans*.

*Hylotoma vagans*, *Fallén, Vetensk. Handl.* xxix. p. 47, n. 24  
 (1808).

*Tenthredo* (*Emphytus*) *melanopyga et amaura*, *Klug, Berl. Mag.* viii.  
 p. 275 (1818).

*Phyllotoma vagans*, *Thoms. Hym. Scand.* i. p. 178 (1871); *Cam. Proc.*  
*N. H. Soc. Glasg.* ii. p. 319 (1875).

*Phyllotoma melanopyga*, *Vollenh. Tijdschr. Ent.* ix. p. 196, pl. viii.  
 (1866).

*Hab.* Europe.

a-p. ♂ ♀.  
 q. ♀.

Germany.  
 Munich.

J. F. Ruthe.  
 H. Buchecker.

7. *Phyllotoma microcephala*.

*Tenthredo* (*Emphytus*) *microcephala*, *Klug, Berl. Mag.* viii. p. 274, n. 184 (1818).

*Phyllotoma microcephala*, *Thoms. Hym. Scand.* i. p. 179 (1871); *Cameron, Proc. N. H. Soc. Glasg.* ii. p. 320 (1875).

*Hab.* Europe.

*a-h.* ♀.

Germany.

J. F. Ruthe.

## 75. FENUSA.

*Fenusa*, *Leach, Zool. Misc.* iii. p. 126 (1817); *Hart. Blattw.* p. 256 (1837).

*Phænusa*, *Cameron, Proc. N. H. Soc. Glasg.* iii. p. 6 (1866).

1. *Fenusa varipes*.

*Dolerus varipes*, *St.-Farg. Mon. Tenth.* p. 119, n. 349 (1823).

*Phænusa melanopoda*, *Cameron, Proc. N. H. Soc. Glasg.* iii. p. 6 (1876).

*Fenusa nigricans*, *Thoms. Hym. Scand.* i. p. 184 (1871).

*Hab.* Britain; Sweden.

2. *Fenusa nigricans*.

*Tenthredo* (*Emphytus*) *nigricans*, *Klug, Berl. Mag.* viii. p. 276, n. 289 (1818).

*Hab.* Sweden.

3. *Fenusa pumila*.

*Tenthredo* (*Emphytus*) *pumila*, *Klug, Berl. Mag.* viii. p. 277, n. 190 (1818).

*Phænusa pumila*, *Cameron, Proc. N. H. Soc. Glasg.* iii. p. 7 (1876).

*Dolerus pusillus*, *St.-Farg. Mon. Tenth.* p. 120, n. 355 (1823).

*Fenusa fuliginosa*, *Healy, Ent.* iv. p. 225 (1869).

*Hab.* Europe.

*a-f.* ♂ ♀.

Britain.

J. F. Stephens.

*g-dd.* ♂ ♀.

Germany.

J. F. Ruthe.

4. *Fenusa ulmi*.

*Fenusa ulmi*, *Sundev. Forh. ved Skand. Naturf.* iv. p. 240 (1847).

*Phænusa ulmi*, *Cameron, Proc. N. H. Soc. Glasg.* iii. p. 9 (1876).

*Fenusa intermedia*, *Thoms. Hym. Scand.* i. p. 186 (1871).

*Hab.* North Europe.

5. *Fenusa pygmæa*.

*Tenthredo* (*Allantus*) *pygmæa*, *Klug, Berl. Mag.* viii. p. 73, n. 55 (1818).

*Emphytus pygmæus*, *Hart. Blattw.* p. 259, n. 4 (1837).

*Phænusa pygmæa*, *Cameron, Proc. N. H. Soc. Glasg.* iii. p. 10 (1876).

*Hab.* Europe.

|                 |                  |                 |
|-----------------|------------------|-----------------|
| <i>a-d.</i> ♀.  | Britain.         | J. F. Stephens. |
| <i>e-g.</i> ♀.  | Britain.         |                 |
| <i>h.</i> ♀.    | Aix-la-Chapelle. | Prof. Förster.  |
| <i>i, k.</i> ♀. | Germany.         | J. F. Ruthe.    |
| <i>l.</i> ♀.    | Sweden.          |                 |
| <i>m.</i> ♀.    | Zurich.          | H. Buchecker.   |

### 6. *Fenusa albipes*.

*Phænusa albipes*, *Cameron, Ent. M. Mag.* xii. p. 131 (1875).

*Hab.* Scotland.

### 7. *Fenusa pumilio*.

*Emphytus pumilio*, *Hart. Blattw.* p. 259, n. 5 (1837).

*Fenusa pumilio*, *Costa, Faun. Nap., Tentr.* p. 40, pl. lxvi. fig. 8 (1859).

*Phænusa pumilio*, *Cameron, Proc. N. H. Soc. Glasg.* iii. p. 11 (1876).

*Fenusa rubi*, *Boie, Stett. ent. Zeit.* ix. p. 340 (1848).

*Hab.* Europe.

|              |         |               |
|--------------|---------|---------------|
| <i>a.</i> ♂. | Munich. | H. Buchecker. |
|--------------|---------|---------------|

### 8. *Fenusa betulæ*.

*Fenusa betulæ*, *Zadd. Blattw.* p. 29 (1859); *Cameron, Proc. N. H. Soc. Glasg.* iii. p. 13 (1876).

*Phyllotoma mellita*, *Newm. Ent.* v. p. 1 (1870).

*Hab.* Europe.

### 9. *Fenusa hortulana*.

*Tenthredo* (*Emphytus*) *hortulana*, *Klug, Berl. Mag.* viii. p. 276, n. 287 (1818).

*Hab.* Central Europe.

|                 |          |                 |
|-----------------|----------|-----------------|
| <i>a, b.</i> ♀. | Britain. | J. F. Stephens. |
|-----------------|----------|-----------------|

### *Fenusa curta*.

*Fenusa curtus*, *Nort. Proc. Ent. Soc. Phil.* i. p. 199 (1862).

*Hab.* Pennsylvania.

### 11. *Fenusa ambigua*.

*Fenusa ambiguus*, *Norton, Trans. Amer. Ent. Soc.* i. p. 225 (1871).

*Hab.* Pennsylvania; Illinois.

## 76. KALIOSYSPHINGA.

*Kaliosysphinga*, *Tischb. Stett. ent. Zeit.* vii. p. 79 (1846).

*Aphadnurus*, *Costa, Faun. Nap., Tentr.* p. 40 (1859).

### 1. *Kaliosysphinga dohrnii*.

*Kaliosysphinga dohrnii*, *Tischb. Stett. ent. Zeit.* vii. p. 80 (1846);  
*André, Spec. Hym.* i. p. 238, pl. xv. fig. 1 (1880).

*Hab.* Herrstein.



2. *Kaliosysphinga tantillus*\*.

*Aphadnurus tantillus*, *Costa, Faun. Nap., Tentr.* p. 41, pl. lxvi. fig. 6 (1859).

*Hab.* Naples.

## 77. HEPTAMELUS.

*Heptamelus*, *Halid. Nat. Hist. Rev.* ii. p. 60 (1855).

*Melicerta*, *Steph. (nec Schrank, 1803) Ill. Brit. Ent., Mand.* vii. p. 94 (1835).

1. *Heptamelus ochroleucus*†.

*Melicerta ochroleucus*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 95 (1835).

*Heptamelus ochroleucus*, *Halid. Nat. Hist. Rev.* ii. p. 60, pl. ii. fig. 1 (1855).

*Hab.* Devonshire; Ireland.

## 78. CÆNONEURA‡.

*Cænoneura*, *Thoms. Op. Ent.* ii. p. 270 (1870); *id. Hym. Scand.* i. p. 182 (1871).

1. *Cænoneura dahlbomi*.

*Cænoneura dahlbomi*, *Thoms. Op. Ent.* ii. p. 271 (1870); *id. Hym. Scand.* i. p. 182 (1871); *André, Spec. Hym.* i. pp. 238 & 239, pl. xv. fig. 1 (1880).

*Hab.* Sweden.

## 79. FENELLA.

*Fenella*, *Westw. Mod. Class. Ins.* ii. *App.* p. 54 (1840).

*Melinia*, *Costa, Faun. Nap., Tentr.* p. 41 (1859).

1. *Fenella pumila*.

*Tenthredo* (*Allantus*) *pumila*, *Klug, Berl. Mag.* viii. p. 72, n. 53 (1818).

*Fenella nigrita*, *Westw. Mod. Class. Ins.* ii. *App.* p. 54 (1840).

*Melinia minutissima*, *Costa, Faun. Nap., Tentr.* p. 41, pl. lxvi. fig. 7 (antenna) (1859).

*Hab.* Europe.

a-c. ♀.

Britain.

J. F. Stephens.

\* Probably identical with the last species.

† The Stephensian specimen representing this species in the British Collection is *Strongylogaster eborina*, Klug (cf. *Cam. Ent. M. M.* xiii. p. 175), which differs both generically and specifically from the descriptions of Stephens and Haliday; and Stephens says that the antennæ were broken in his specimen, whereas they are perfect, or nearly so, in the above-mentioned specimen of *S. eborina*.

‡ This genus must be closely allied to, if not identical with, *Heptamelus*.

2. *Fenella tormentillæ*.

*Phyllotoma tormentillæ*, *Healy, Ent.* iv. p. 140 (1868).

*Fenella nigrita*, *Thoms. Op. Ent.* ii. p. 270, n. 2 (1870); *id. Hym. Scand.* i. p. 180 (1871).

*Hab.* Europe.

3. *Fenella minuta*.

*Fenella minuta*, *Thoms. Op. Ent.* ii. p. 270, n. 1 (1870); *id. Hym. Scand.* i. p. 181 (1871).

*Hab.* Sweden.

4. *Fenella monilicornis*.

*Fenella monilicornis*, *Thoms. Hym. Scand.* i. p. 181 (1871).

*Hab.* Sweden.

## Subfamily IX. EMPHYTINÆ.

## 80. EMPHYTUS.

*Tenthredo*, fam. ix. (*Emphytus*, p.), *Klug, Berl. Mag.* viii. p. 278 (1819).

*Emphytus*, sect. i., *Hart. Blattw.* p. 247 (1837).

A. *Europæo-Asiatic Species, including North Africa, Western Asia, and Japan.*

1. *Emphytus viennensis*.

*Tenthredo viennensis*, *Schrank, Enum. Ins. Austr.* p. 331, n. 666 (1781); *id. Fauna Boica*, ii. pt. 2, p. 249 (1802); *Panz. Faun. Germ.* Heft 65, pl. v. (1799).

*Tenthredo* (*Emphytus*) *viennensis*, *Klug, Berl. Mag.* viii. p. 278, n. 192 (1818).

*Hab.* Austria, Bavaria.

2. *Emphytus ferruginosus*.

*Tenthredo ferruginosa*, *Gmel. Syst. Nat.* i. pt. 5, p. 2667, n. 123 (1789).

*Tenthredo* (*Emphytus*) *succinctus*, *Klug, Berl. Mag.* viii. p. 279, n. 193 (1818).

*Emphytus succinctus*, *Thoms. Hym. Scand.* i. p. 188 (1871).

*Tenthredo togata*, *Panz. (nec Fabr.) Faun. Germ.* Heft 82, pl. xi. (1801).

*Hab.* Europe.

a-d. ♀.  
e-g. ♀.

Britain.  
Britain.

J. F. Stephens.

|                  |          |               |
|------------------|----------|---------------|
| <i>h-k.</i> ♂ ♀. | Germany. | J. F. Ruthe.  |
| <i>l, m.</i> ♀.  | Europe.  |               |
| <i>n.</i> ♀.     | Munich.  | H. Buchecker. |
| <i>o.</i> ♀.     | Zurich.  | H. Buchecker. |

### 3. *Emphytus cinctus*.

*Tenthredo cincta*, *Linn. Syst. Nat.* i. p. 557, n. 22 (1758); *id. Faun. Suec.* p. 393 (1761).

*Dolerus cinctus*, *Jur. Hym.* pl. vi. gen. 4, fam. 2 (1807).

*Tenthredo cordigera*, *Fourcr. Ent. Par.* ii. p. 374, n. 34 (1785).

*Tenthredo* (*Emphytus*) *cincta et togata*, *Klug, Berl. Mag.* viii. pp. 279 & 280 (1818).

*Emphytus cinctus*, *Costa, Faun. Nap., Tentr.* p. 37, pl. lxvi. fig. 4 (1859); *Vollenh. Tijdschr. Ent.* viii. p. 73, pl. iii. (1865); *Thoms. Hym. Scand.* i. p. 189 (1871).

*Tenthredo togata*, *Fabr. Syst. Piez.* p. 32, n. 65 (1804); *Zett. Ins. Lapp.* p. 342 (1838).

*Dolerus cingulatus*, *St.-Farg. Mon. Tenth.* p. 117, n. 243 (1823).

*Hab.* Europe.

|                    |                               |                 |
|--------------------|-------------------------------|-----------------|
| <i>a-s.</i> ♂ ♀.   | Britain.                      | J. F. Stephens. |
| <i>t-dd.</i> ♂ ♀.  | Britain.                      |                 |
| <i>ee-ll.</i> ♂ ♀. | Germany.                      | J. F. Ruthe.    |
| <i>mm-pp.</i> ♂ ♀. | Munich.                       | H. Buchecker.   |
| <i>qq.</i> ♀.      | Lägern Mountain, near Zurich. | H. Buchecker.   |

### 4. *Emphytus cingillum*.

*Tenthredo* (*Emphytus*) *cingillum*, *Klug, Berl. Mag.* viii. p. 281, n. 191 (1818).

*Emphytus cingillum*, *Thoms. Hym. Scand.* i. p. 192, n. 5 (1871).

*Hab.* Central Europe.

|              |          |              |
|--------------|----------|--------------|
| <i>a.</i> ♀. | Germany. | J. F. Ruthe. |
|--------------|----------|--------------|

### 5. *Emphytus fulvipes*.

*Tenthredo fulvipes*, *Fallén, Mon. Tenth.* p. 42, n. 7 (1829).

*Emphytus fulvipes*, *Thoms. Hym. Scand.* i. p. 190 (1871).

*Tenthredo angustata*, *Zett. Ins. Lapp.* p. 357, n. 35 (1838).

*Emphytus cingillum*, *Thoms. Op. Ent.* ii. p. 274, n. 7 (1870).

*Hab.* Europe.

|                 |         |               |
|-----------------|---------|---------------|
| <i>a, b.</i> ♂. | Munich. | H. Buchecker. |
| <i>c.</i> ♀.    | Zurich. | H. Buchecker. |

### 6. *Emphytus truncatus*.

*Tenthredo* (*Emphytus*) *truncatus*, *Klug, Berl. Mag.* viii. p. 281, n. 198 (1818).

*Hab.* Germany, Switzerland.

|              |                               |               |
|--------------|-------------------------------|---------------|
| <i>a.</i> ♂. | Lägern Mountain, near Zurich. | H. Buchecker. |
|--------------|-------------------------------|---------------|

7. *Emphytus tibialis*.

*Tenthredo tibialis*, *De Vill. Linn. Ent.* iii. p. 117, n. 109 (1789).

*Tenthredo* (*Emphytus*) *basalis*, *Klug, Berl. Mag.* viii. p. 282, n. 199 (1818).

*Emphytus basalis*, *Thoms. Hym. Scand.* i. p. 190 (1871).

*Hab.* Germany, Sweden.

8. *Emphytus melanarius*.

*Tenthredo* (*Emphytus*) *melanarius*, *Klug, Berl. Mag.* viii. p. 282, n. 200 (1818).

? *Emphytus melanarius*, *Thoms. Hym. Scand.* i. p. 192 (1871).

? *Emphytus didymus*, *Thoms. Opusc. Ent.* ii. p. 274, n. 4 (1870).

*Hab.* North Europe.

|       |          |                 |
|-------|----------|-----------------|
| a. ♀. | Britain. | J. F. Stephens. |
| b. ♀. | Zurich.  | H. Buchecker.   |

9. *Emphytus tricoloripes*.

*Emphytus tricoloripes*, *Costa, Faun. Nap., Tentr.* p. 35, pl. lxvi. fig. 3 (1859).

*Hab.* Italy.

10. *Emphytus varipes*.

*Dolerus varipes*, *St.-Farg. Mon. Tenth.* p. 119 (1823); *id. Faun. Franç.* pl. viii. fig. 4.

*Hab.* France.

11. *Emphytus carpini*.

*Emphytus carpini*, *Hart Blattw.* p. 250, n. 11 (1837); *Thoms. Hym. Scand.* i. p. 196 (1871).

*Tenthredo spuria* ♂, *Zett. Ins. Lapp.* p. 340, n. 8 (1838).

*Hab.* Europe.

|                                     |          |                 |
|-------------------------------------|----------|-----------------|
| a-e. ♂. (As <i>E. grossulariæ</i> ) | Britain. | J. F. Stephens. |
| f-k. ♂.                             | Britain. | J. F. Stephens. |
| l-s. ♂ ♀.                           | Germany. | J. F. Ruthe.    |
| t, u. ♀.                            | Munich.  | H. Buchecker.   |

12. *Emphytus neglectus*.

*Emphytus neglectus*, *Zadd. Blattw.* p. 27 (1859).

*Hab.* Prussia.

13. *Emphytus didymus*.

*Tenthredo* (*Emphytus*) *didyma*, *Klug, Berl. Mag.* viii. p. 282, n. 201 (1818).

*Hab.* Germany.

|           |         |               |
|-----------|---------|---------------|
| a. ♀.     | Munich. | H. Buchecker. |
| b-d. ♂ ♀. | Zurich. | H. Buchecker. |

14. *Emphytus testaceipes*.

*Dolerus testaceipes*, *St.-Farg. Mon. Tenth.* p. 119, n. 351 (1823).

*Hab.* France.

15. *Emphytus proximus*.

*Emphytus proximus*, *Costa, Faun. Nap., Tentr.* p. 36 (1859).

*Hab.* Calabria.

16. *Emphytus nigritarsis*.

*Emphytus nigritarsis*, *Brullé, Exp. Scient. de Morée*, iii. (1) pt. 2, p. 875 (1832).

*Hab.* Morea.

17. *Emphytus fumatus*.

*Emphytus fumatus*, *André, Spec. Hym.* p. 249 (1880).

*Hab.* Switzerland.

18. *Emphytus pallipes*.

*Tenthredo pallipes*, *Spin. Ins. Lig.* ii. p. 19 (1808).

*Emphytus pallipes*, *Costa, Faun. Nap., Tentr.* p. 37 (1859).

*Tenthredo* (*Emphytus*) *grossulariæ*, *Klug, Berl. Mag.* viii. p. 283, n. 202 (1818).

*Emphytus grossulariæ*, *Thoms. Hym. Scand.* i. p. 195 (1871).

*Dolerus leucopodus*, *St.-Farg. Mon. Tenth.* p. 119, n. 350 (1823).

*Hab.* Europe.

*a-g.* ♀. (As *E. gilvipes*.)

Britain.

J. F. Stephens.

*h-o.* ♀.

Germany.

J. F. Ruthe.

*p-r.* ♀.

Munich.

H. Buchecker.

19. *Emphytus dissimilis*.

*Emphytus dissimilis*, *Dietr. Mitth. schw. ent. Ges.* ii. p. 354 (1856).

*Hab.* Zurich.

*a.* ♂.

Zurich.

H. Buchecker.

20. *Emphytus tener*.

*Tenthredo tenera*, *Fallén, Vetensk. Handl.* xxix. p. 109, n. 44 (1808).

*Emphytus tener*, *Thoms. Hym. Scand.* i. p. 196 (1871).

*Tenthredo* (*Emphytus*) *patellata*, *Klug, Berl. Mag.* viii. p. 263, n. 203 (1818).

*Dolerus luctuosus*, *St.-Farg. Mon. Tenth.* p. 119, n. 352 (1823); *id. Faun. Franç.* p. 57, n. 13, pl. viii. fig. 5.

*Hab.* Europe.

*a-c.* ♂ ♀.

Britain.

J. F. Stephens.

*d-p.* ♂ ♀.

Germany.

J. F. Ruthe.

*g, r.* ♂.

Munich.

H. Buchecker.

*s.* ♂.

Zurich.

H. Buchecker.

21. *Emphytus xanthopyga*.

*Tenthredo* (*Emphytus*) *xanthopyga*, *Klug, Berl. Mag.* viii. p. 284, n. 206 (1818).

*Hab.* Carinthia.

22. *Emphytus filiformis*.

*Tenthredo* (*Emphytus*) *filiformis* et *apicalis*, *Klug, Berl. Mag.* viii. p. 285, nn. 207 & 208 (1818).

*Emphytus klugii*, *Thoms. Hym. Scand.* i. p. 194 (1871).

*Hab.* Silesia; Sweden.

*a-e.* ♂.

Germany.

J. F. Ruthe.

23. *Emphytus caligatus*.

*Emphytus caligatus*, *Eversm. Bull. Mosc.* xx. p. 28 (1847).

*Hab.* Kasan.

24. *Emphytus parallelus*.

*Emphytus parallelus*, *Eversm. Bull. Mosc.* xx. p. 28 (1847).

*Hab.* Kasan.

25. *Emphytus panzeri*.

*Tenthredo tibialis*, *Panz. (nec De Vill.)*, *Faun. Germ.* Heft 62, pl. xi. (1799).

*Tenthredo* (*Emphytus*) *tibialis*, *Klug, Berl. Mag.* viii. p. 286, n. 209 (1818).

*Emphytus tibialis*, *Rudow, Stett. ent. Zeit.* vii. p. 79 (1846); *Vollenh. Tijdschr. Ent.* ii. p. 143, pl. ix. (1859); *Thoms. Hym. Scand.* i. p. 194 (1871).

*Hab.* Europe.

*a-d.* ♂ ♀.

Britain.

J. F. Stephens.

*e-g.* ♂ ♀.

Britain.

*h.* ♀.

Europe.

*i-n.* ♂ ♀.

Munich.

H. Buchecker.

26. *Emphytus pavidus*.

*Tenthredo pavida*, *Fabr. Syst. Ent.* p. 321, n. 19 (1775).

*Tenthredo rufocincta*, *Retz. Gen. Spec. Ins.* p. 72, n. 305 (1783).

*Tenthredo* (*Emphytus*) *rufocincta*, *Klug, Berl. Mag.* viii. p. 286, n. 210 (1818).

*Emphytus rufocinctus*, *Thoms. Hym. Scand.* i. p. 192 (1871).

*Dolerus laticinctus*, *St.-Farg. Mon. Tenth.* p. 116, n. 339 (1823); *id. Faun. Franç.* p. 53, n. 1, pl. viii. fig. 1.

*Dolerus fasciatus*, *St.-Farg. Mon. Tenth.* p. 118, n. 346 (1823).

*Hab.* Europe.

*a-d.* ♀.

Britain.

J. F. Stephens.

*e.* ♀.

Sweden.

*f, g.* ♀.

Zurich.

H. Buchecker.

27. *Emphytus elegans*.

*Emphytus elegans*, *Costa, Faun. Nap., Tentr.* p. 38, pl. lxvi. fig. 5 (1859).

*Hab.* Italy.

28. *Emphytus coxalis*.

*Tenthredo* (*Emphytus*) *coxalis*, *Klug, Berl. Mag.* viii. p. 287, n. 211 (1818).

*Hab.* Germany.

a. ♀.

Germany.

J. F. Ruthe.

29. *Emphytus bucculentus*.

*Emphytus bucculentus*, *Tischb. Stett. ent. Zeit.* vii. p. 79 (1846).

*Hab.* Lübeck.

30. *Emphytus fulvocinctus*.

*Emphytus fulvocinctus*, *Rudow, Stett. ent. Zeit.* xxxiii. p. 217 (1872).

*Hab.* Harz.

31. *Emphytus balteatus*.

*Tenthredo* (*Emphytus*) *balteata*, *Klug, Berl. Mag.* viii. p. 287, n. 212 (1818).

*Hab.* Carinthia.

32. *Emphytus calceatus*.

*Tenthredo* (*Emphytus*) *calceata*, *Klug, Berl. Mag.* viii. p. 288, n. 213 (1818).

*Emphytus calceatus*, *Thoms. Hym. Scand.* i. p. 193 (1871).

*Dolerus vicinus*, *St.-Farg. Mon. Tenth.* p. 118, n. 347 (1823).

*Hab.* Central Europe.

a-e. ♂ ♀.

Britain.

J. F. Stephens.

f-h. ♂ ♀.

Britain.

i-l. ♀.

Germany.

J. F. Ruthe.

m-o. ♀.

Munich.

H. Buchecker.

33. *Emphytus ustus*.

*Tenthredo* (*Emphytus*) *usta*, *Klug, Berl. Mag.* viii. p. 288, n. 214 (1818).

*Emphytus cistus*, *Hart. Blattw.* p. 252, n. 21 (1837).

*Hab.* Austria.

34. *Emphytus serotinus*.

*Tenthredo* (*Emphytus*) *serotinus*, *Klug, Berl. Mag.* viii. p. 288, n. 214 (1818).

*Emphytus serotinus*, *Vollenh. Tijdschr. Ent.* xiii. p. 61, pl. ii. (1870); *Thoms. Hym. Scand.* i. p. 195 (1871).

*Dolerus abdominalis*, *St.-Farg. Mon. Tenth.* p. 118, n. 245 (1823)

*id. Faun. Franç.* p. 55, n. 6, pl. viii. fig. 3.

*Hab.* Europe.

*a-h.* ♂ ♀.

Britain.

J. F. Stephens.

*i-k.* ♂ ♀.

Britain.

*l-p.* ♂ ♀.

Germany.

J. F. Ruthe.

*q-t.* ♂ ♀.

Munich.

H. Buchecker.

### 35. *Emphytus cereus*.

*Tenthredo* (*Emphytus*) *cerea*, *Klug, Berl. Mag.* viii. p. 289, n. 216 (1818).

*Hab.* Central Europe.

*a.* ♀.

Germany.

J. F. Ruthe.

### 36. *Emphytus cerris*.

*Tenthredo* (*Emphytus*) *cerris*, *Koll. Denkschr. Akad. Wien*, iii. p. 48, pl. i. (1852).

*Hab.* Austria.

### 37. *Emphytus perla*.

*Tenthredo* (*Emphytus*) *perla*, *Klug, Berl. Mag.* viii. p. 289, n. 217 (1818).

*Emphytus perla*, *Thoms. Hym. Scand.* ii. p. 197 (1871).

*Emphytus bohemani*, *Thoms. Opusc. Ent.* ii. p. 275, n. 10 (1870).

*Hab.* North Europe.

### 38. *Emphytus temesiensis*.

*Emphytus temesiensis*, *Mócs. Term. füzetek*, iii. p. 115 (1879).

*Hab.* Europe.

*a, b.* ♀.

Germany.

J. F. Ruthe.

### 39. *Emphytus* (?) *dubius*.

*Dolerus pallipes*, *St.-Farg. Mon. Tenth.* p. 119, n. 353 (1823); *id. Faun. Franç.* p. 57, n. 14, pl. viii. fig. 6.

*Hab.* France.

### 40. *Emphytus* (?) *nigritus*.

*Dolerus nigritus*, *St.-Farg. Mon. Tenth.* p. 120, n. 354 (1823).

*Hab.* France.

### 41. *Emphytus barbarus*.

*Emphytus barbarus*, *André, Spec. Hym.* i. p. 580 (1881).

*Hab.* Algeria.

### 42. *Emphytus tegulatus*.

*Emphytus tegulatus*, *André, Spec. Hym.* i. p. 578 (1881); *id. Annales de la Soc. Ent. de France* (6), i. p. 351 (1881).

*Hab.* Beyrout.



43. *Emphytus ruficrus*.

*Emphytus ruficrus*, *Mócs. Term. füzetek*, iv. p. 268 (1880).

*Hab.* Beyrout.

44. *Emphytus zonarius*.

*Emphytus zonarius*, *Mócs. Term. füzetek*, iv. p. 268 (1880).

*Hab.* Persia.

45. *Emphytus fuscipennis*.

(Plate IX. fig. 5.)

*Dolerus fuscipennis*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 383.

Exp. al. 8 lin., long. corp. 4 lin.

Black, with a thin, short, hairy pubescence; scapulæ and cenchri white; wings fuscous; anterior tibiæ in front, posterior trochanters, and the tibiæ outside white; a short white line on the sides of segments 4 and 5 of the abdomen.

*Hab.* Japan.

a. ♀. (Type of species.)

Hiogo.

G. Lewis, Esq.

46. *Emphytus japonicus*.

*Dolerus coxalis*, *Motsch. (nec Klug) Bull. Mosc.* xxxix. p. 182 (1866).

*Hab.* Japan\*.

47. *Emphytus nigrocæruleus*.

(Plate IX. fig. 6.)

*Dolerus nigrocæruleus*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 384.

Exp. al. 6 lin., long. corp. 3 lin.

Blue-black, head and eyes very large, clypeus white, mandibles reddish at the tips. Four front legs white, with a black line above; hind legs blue-black, coxæ, trochanters, and the extremities of the femora and tibiæ excepted. The middle of the second and third segments above, and of two or three basal segments below, white. Wings iridescent hyaline, with fuscous nervures.

*Hab.* Japan.

a. ♀. (Type of species.)

Japan.

G. Lewis, Esq.

B. *North-American Species.*48. *Emphytus inornatus*.

*Dolerus inornatus*, *Say, Long's 2nd Exped.* ii. p. 319, n. 1 (1824).

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\* Appears to be allied to *E. fuscipennis*; but the face is white, and the wings are not said to be clouded.

*Emphytus inornatus*, *Nort. Proc. Bost. Soc.* viii. p. 155, n. 1 (1861);  
*id. Trans. Amer. Ent. Soc.* i. p. 227 (1867).

*Hab.* United States.

#### 49. *Emphytus canadensis*.

*Emphytus pallipes*, *Provancher (nec Spin.)*, *Nat. Canad.* x. p. 66 (1878).

*Hab.* Canada.

#### 50. *Emphytus apertus*.

*Emphytus apertus*, *Nort. Proc. Bost. Soc.* viii. p. 155, n. 2 (1861);  
*id. Trans. Amer. Ent. Soc.* i. p. 228 (1867).

*Hab.* United States.

#### 51. *Emphytus stramineipes*.

*Emphytus stramineipes*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 52 (1880).

*Hab.* Washington Territory.

#### 52. *Emphytus mellipes*.

*Emphytus mellipes*, *Nort. Proc. Bost. Soc.* viii. p. 155, n. 3 (1861).

*Hab.* United States.

#### 53. *Emphytus cinctipes*.

*Emphytus cinctipes*, *Nort. Trans. Amer. Ent. Soc.* i. p. 229 (1867).

*Hab.* United States.

#### 54. *Emphytus (?) nigrofasciatus*.

*Tenthredo nigrofasciata*, *Esch. Entomogr.* p. 96 (1822).

*Hab.* Unalaschka.

### 81. HARPIPHORUS.

*Emphytus*, sect. 2. *Harpiphorus*, *Hart. Blattw.* p. 253 (1837).

*Harpiphorus*, *Thoms. Hym. Scand.* i. p. 196 (1871).

*Asticta*, *Newm. Ent. Mag.* v. p. 484 (1838).

#### 1. *Harpiphorus lepidus*.

*Tenthredo (Emphytus) lepidus*, *Klug, Berl. Mag.* viii. p. 277, n. 191 (1818).

*Harpiphorus lepidus*, *Thoms. Hym. Scand.* p. 197 (1871).

*Fenusa ianthus*, *Newm. Ent. Mag.* iv. p. 261 (1837).

*Hab.* Central Europe.

*a-h.* ♀.

Germany.

J. F. Ruthe.

2. *Harpiphorus tæniatus*.

*Harpiphorus tæniatus*, *Costa, Ann. Mus. Nap.* v. p. 14, note (1869).

*Hab.* Piedmont.

3. *Harpiphorus immersus*.

*Tenthredo* (*Emphytus*) *immersa*, *Klug, Berl. Mag.* viii. p. 284, n. 205 (1818).

*Dolerus pallimacula*, *St.-Farg. Mon. Tenth.* p. 117, n. 344 (1823);  
*id. Faun. Franç.* p. 55, n. 5, pl. viii. fig. 2; *Brullé, Hym.* iv.  
pl. xlvii. fig. 3 (1846).

*Emphytus fenestratus*, *Eversm. Bull. Mosc.* xx. p. 27 (1847).

*Hab.* Europe, Siberia.

|       |          |                 |
|-------|----------|-----------------|
| a. ♂. | Britain. | J. F. Stephens. |
| b. ♀. | Germany. | J. F. Ruthe.    |
| c. ♀. | Zurich.  | H. Buchecker.   |

4. *Harpiphorus vernalis*.

*Emphytus* (*Harpiphorus*) *vernalis*, *Dietr. Mitth. schweiz. ent. Ges.* ii.  
p. 354 (1856).

*Hab.* Germany, Switzerland.

|       |         |               |
|-------|---------|---------------|
| a. ♀. | Munich. | H. Buchecker. |
|-------|---------|---------------|

5. *Harpiphorus majalis*.

*Emphytus majalis*, *Vollenh. Tijdschr. Ent.* xii. p. 121, pl. iii. fig. 2  
(1869).

*Hab.* Utrecht.

6. *Harpiphorus hybridus*.

*Tenthredo* (*Pœcilostoma*) *hybrida*, *Erichs. Middend. Reise*, ii. pt. 1,  
p. 60 (1851).

*Hab.* Siberia.

7. *Harpiphorus vexator*.

(Plate IX. fig. 4.)

*Macrophya vexator*, *Smith, Trans. Ent. Soc.* 1874, p. 378.

Exp. al. 7 lin., long. corp.  $4\frac{1}{2}$  lin.

Black; head, clypeus, inner and hinder border of the eyes, joints 6-8 of the antennæ, anterior tibiæ and tarsi in front, hind coxæ, trochanters, and base of the femora, first joint of the hind tarsi, and the second and third joints all white. Wings yellowish hyaline, with fuscous nervures; the stigma white at the base.

*Hab.* Japan.

|                          |        |                |
|--------------------------|--------|----------------|
| a. ♀. (Type of species.) | Hiogo. | G. Lewis, Esq. |
|--------------------------|--------|----------------|

8. *Harpiphorus varianus*.

*Emphytus varianus*, *Nort. Proc. Bost. Soc.* viii. p. 156, n. 4 (1861);  
*id. Trans. Amer. Ent. Soc.* i. p. 229, n. 5 (1867).

*Hab.* United States.

*a.* ♀.

9. *Harpiphorus versicolor*.

*Emphytus versicolor*, *Nort. Trans. Amer. Ent. Soc.* i. p. 230, n. 6 (1867).

*Hab.* Illinois.

10. *Harpiphorus testaceus*.

*Emphytus testaceus*, *Nort. Proc. Bost. Soc.* viii. p. 156, n. 5 (1861);  
*id. Trans. Amer. Ent. Soc.* i. p. 230, n. 7 (1867).

*Hab.* United States.

11. *Harpiphorus semicornis*.

*Emphytus semicornis*, *Say, Bost. Journ.* i. p. 220, n. 2 (1835); *Nort. Trans. Amer. Ent. Soc.* i. p. 231, n. 8.

*Hab.* United States.

*a.* ♀.

Nova Scotia.

Lieut. Redman.

12. *Harpiphorus tarsatus*.

*Emphytus tarsatus*, *Say, Bost. Journ.* i. p. 219, n. 1 (1835); *Nort. Proc. Bost. Soc.* viii. p. 157, n. 7 (1861); *id. Trans. Amer. Ent. Soc.* i. p. 231, n. 9 (1867).

*Hab.* North America.

*a.* ♀.

St. Martin's Falls, Albany River,  
 Hudson's Bay.

Dr. Barnston.

Closely allied to *H. immersus*.

13. *Harpiphorus bollii*.

*Emphytus bollii*, *Nort. Trans. Amer. Ent. Soc.* iv. p. 80 (1872).

*Hab.* Texas.

14. *Harpiphorus maculatus*.

*Emphytus maculatus*, *Nort. Proc. Bost. Soc.* viii. p. 157, n. 8 (1861);  
*id. Trans. Amer. Ent. Soc.* i. p. 232 (1867).

*Hab.* North America.

*a-e.* ♂ ♀.

St. Martin's Falls, Albany River,  
 Hudson's Bay.

Dr. Barnston.

Closely allied to *H. immersus*.

15. *Harpiphorus improbus*.

*Emphytus improbus*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 11 (1880).

*Hab.* Nevada.

16. *Harpiphorus* (?) *platycerus*. \*

*Emphytus platycerus*, *Say, Bost. Journ.* i. p. 220, n. 3 (1835).

*Hab.* Indiana.

17. *Harpiphorus recens*.

*Emphytus recens*, *Say, Bost. Journ.* i. p. 221, n. 4 (1835).

*Hab.* Indiana.

18. *Harpiphorus* (?) *articulatus*.

*Tenthredo* (*Emphytus*) *articulata*, *Klug, Berl. Mag.* viii. p. 284, n. 204 (1818).

*Hab.* Baltimore.

## 82. ANEUGMENUS.

*Emphytus*, sect. iii. *Aneugmenus*, *Hart. Blattw.* p. 253 (1837).

1. *Aneugmenus infuscatus*.

*Emphytus infuscatus*, *Eversm. Bull. Mosc.* xx. p. 20 (1847).

*Hab.* Kasan.

*a. ♂.*

Munich (?).

H. Buchecker.

2. *Aneugmenus coronatus*.

*Tenthredo* (*Emphytus*) *coronata*, *Klug, Berl. Mag.* viii. p. 276, n. 188 (1818).

*Hab.* Silesia.

3. *Aneugmenus* (?) *radialis* \*.

*Emphytus radialis*, *Eversm. Bull. Mosc.* xx. p. 28 (1847).

*Hab.* Kasan.

## 83. ATHLOPHORUS.

*Athlophorus*, *Burm. Jubelfeier Dr. Klug*, 1847.

1. *Athlophorus klugii*.

*Athlophorus klugii*, *Burm. Jubelfeier Dr. Klug*, 1847.

*Hab.* Java.

## 84. PÆCILOSTOMA.

*Pæcilostoma*, *Dahlb. Conspect. Tenth.* pp. 9, 13 (1835); *Hart. Blattw.* p. 302 (1837).

*Pæcilosoma*, *Thoms. Hym. Scand.* i. p. 227 (1871).

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\* Probably the type of a new genus: lanceolate cell with oblique cross-line; hind wings with two middle cells. André places it in *Harpiphorus*.

1. *Pæcilostoma pulveratum*.

- Tenthredo pulverata*, *Retz. Gen. Spec. Ins.* p. 72, n. 304 (1783).  
*Tenthredo limbata*, *Gmel. Syst. Nat.* i. pt. v. p. 2667, n. 121 (1789);  
*St.-Farg. Mon. Tenthr.* p. 72, n. 218 (1823).  
*Tenthredo* (*Allantus*) *obesa*, *Klug, Berl. Mag.* viii. p. 210, n. 164 (1818).  
*Pæcilosoma pulverata*, *Thoms. Hym. Scand.* i. p. 229 (1871).  
*Selandria pulchella*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 54 (1835).  
*Tenthredo leucozonius*, *Hart. Blattw.* p. 290, n. 15 (1837).

*Hab.* Europe.

|                |          |                 |
|----------------|----------|-----------------|
| <i>a.</i> ♀.   | Britain. | J. F. Stephens. |
| <i>b.</i> ♀.   | Britain. |                 |
| <i>c-h.</i> ♀. | Germany. | J. F. Ruthe.    |

2. *Pæcilostoma obtusum*.

- Tenthredo* (*Allantus*) *obtusa*, *Klug, Berl. Mag.* viii. p. 211, n. 166 (1818).  
*Pæcilosoma obtusa*, *Thoms. Hym. Scand.* i. p. 231 (1871).

*Hab.* Hungary.

3. *Pæcilostoma carbonarium*.

- Tenthredo carbonaria*, *Scop. Ent. Carn.* p. 279, n. 733 (1763).  
*Tenthredo guttata*, *Fall. Vet.-Akad. Handl.* xxix. p. 105, n. 39 (1808).  
*Tenthredo* (*Allantus*) *impressa*, *Klug, Berl. Mag.* viii. p. 68, n. 46 (1818).  
*Selandria klugii*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 53 (1835).  
*Pæcilostoma impressum*, *Costa, Faun. Nap., Tentr.* p. 109, pl. lxxviii. fig. 5 (1859).  
*Pæcilosoma guttata*, *Thoms. Hym. Scand.* i. p. 231 (1871).

*Hab.* Europe.

|  |          |                 |
|--|----------|-----------------|
| <i>a-d.</i> ♂ ♀.                         | Britain. | J. F. Stephens. |
| <i>e.</i> ♀. (Type of <i>S. klugii</i> ) | Darenth. | J. F. Stephens. |
| <i>f-h.</i> ♂ ♀.                         | Britain. |                 |
| <i>i-z.</i> ♂ ♀.                         | Germany. | J. F. Ruthe.    |
| <i>aa.</i> ♀.                            | Sweden.  |                 |
| <i>bb-dd.</i> ♀.                         | Zurich.  | H. Buchecker.   |

4. *Pæcilostoma longicorne*.

- Pæcilosoma longicornis*, *Thoms. Hym. Scand.* i. p. 232, n. 6 (1871).

*Hab.* Sweden.

5. *Pæcilostoma submuticum*.

- Pæcilosoma submutica*, *Thoms. Hym. Scand.* i. p. 232, n. 7 (1871).

*Hab.* Sweden.

6. *Pæcilostoma excisum*.

- Pæcilosoma excisa*, *Thoms. Hym. Scand.* i. p. 233, n. 8 (1871).

*Hab.* Sweden.

7. *Pæcilostoma* (?) *gelidum*.

*Tenthredo* (*Pæcilostoma*) *gelida*, *Erichs. Middend. Reise*, ii. pt. 1' p. 61 (1851).

*Hab.* Siberia.

8. *Pæcilostoma inferentia*.

*Pæcilostoma inferentia*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 224 (1868).

*Hab.* North America.

|       |  |               |
|-------|--|---------------|
| a. ♂. | St. Martin's Falls, Albany River,<br>Hudson's Bay. | Dr. Barnston. |
|-------|--|---------------|

9. *Pæcilostoma albosectum*.

*Strongylogaster albosectus*, *Provancher, Nat. Canad.* x. p. 168 (1878).

*Hab.* Canada.

10. *Pæcilostoma coquimbense*.

*Tenthredo coquimbensis*, *Spin. Gay's Fauna Chilena*, vi. p. 556 (1851).

*Hab.* Chili.

## 85. TAXONUS.

*Taxonus*, *Hart. Blattw.* p. 297 (1837).

1. *Taxonus agrorum*.

*Tenthredo* (*Allantus*) *nitida*, *Klug, Berl. Mag.* viii. p. 218, n. 179 (1818).

*Tenthredo agrorum*, *Fallén, Vetensk. Handl.* xxix. p. 59 (1808).

*Taxonus agrorum*, *Thoms. Hym. Scand.* i. p. 234 (1871).

*Hab.* Central Europe.

|                                |          |                 |
|--------------------------------|----------|-----------------|
| a. ♂.                          | Britain. | J. F. Stephens. |
| b. ♀. (As <i>T. bicolor</i> .) | Britain. | J. F. Stephens. |
| c-g. ♂ ♀.                      | Germany. | J. F. Ruthe.    |
| h, i. ♀.                       | Sweden.  |                 |

2. *Taxonus sticticus*.

*Tenthredo* (*Allantus*) *stictica*, *Klug, Berl. Mag.* viii. p. 218, n. 180 (1818).

*Hab.* Hungary.

3. *Taxonus equiseti*.

*Tenthredo* (*Allantus*) *bicolor*, *Klug, Berl. Mag.* viii. p. 219, n. 181 (1818).

*Tenthredo equiseti*, *Fall. Vet.-Akad. Handl.* xxix. p. 60, n. 20 (1808).

- Taxonus equiseti*, *Thoms. Hym. Scand.* i. p. 234 (1871).  
*Taxonus pratorum*, *Thoms. Opusc. Ent.* ii. p. 290, n. 2 (1870).  
*Tenthredo bizonata*, *Zett. Ins. Lapp.* p. 344, n. 24 (1838).

*Hab.* Europe.

|                   |          |               |
|-------------------|----------|---------------|
| <i>a-h.</i> ♂ ♀.  | Germany. | J. F. Ruthe.  |
| <i>i, k.</i> ♂ ♀. | Munich.  | H. Buchecker. |

#### 4. *Taxonus coxalis*.

*Tenthredo coxalis*, *Hart. Blattw.* p. 298, n. 4 (1837).

*Hab.* Germany.

#### 5. *Taxonus minutus*.

*Taxonus minutus*, *Costa, Faun. Nap., Tentr.* p. 110, pl. lxxviii. fig. 4 (1859).

*Hab.* Naples.

#### 6. *Taxonus glabratus*.

*Tenthredo* (*Allantus*) *agilis*, *Klug, Berl. Mag.* viii. p. 208, n. 159 (1818).

*Tenthredo glabrata*, *Fall. Vet.-Akad. Handl.* xxix. p. 108, n. 43 (1808).

*Taxonus glabratus*, *Thoms. Hym. Scand.* i. p. 235 (1871).

|   |          |                     |
|---|----------|---------------------|
| <i>a.</i> ♂.                              | Britain. | J. F. Stephens.     |
| <i>b.</i> ♀.                              | Britain. |                     |
| <i>c.</i> ♂.                              | England. | T. R. Billups, Esq. |
| <i>d-n.</i> ♂ ♀. (As <i>T. rufipes</i> .) | Britain. | J. F. Stephens.     |
| <i>o-w.</i> ♂ ♀.                          | Germany. | J. F. Ruthe.        |
| <i>x.</i> ♀.                              | Sweden.  |                     |
| <i>y.</i> ♀.                              | Munich.  | H. Buchecker.       |

#### 7. *Taxonus opacomaculatus*.

*Tenthredo opacomaculata*, *Eversm. Bull. Mosc.* xx. p. 44 (1847).

*Hab.* Kasan.

#### 8. *Taxonus fletcheri*.

*Taxonus fletcheri*, *Cameron, Ent. M. Mag.* xiv. p. 266 (1878).

*Hab.* Worcester.

#### 9. *Taxonus albipes*.

*Taxonus albipes*, *Thoms. Hym. Scand.* i. p. 235 (1871).

*Tenthredo cerasi* ♂, *Zett. Ins. Lapp.* p. 340, n. 10 (1838).

*Hab.* Sweden, Lapland.

#### 10. *Taxonus glottianus*.

*Taxonus glottianus*, *Cameron, Ent. M. Mag.* x. p. 220 (1874).

*Hab.* Scotland.



11. *Taxonus nigrisoma*.

*Taxonus nigrisoma*, *Nort. Proc. Bost. Soc.* ix. p. 119 (1862); *id. Trans. Amer. Ent. Soc.* ii. p. 211 (1868).

*Hab.* Massachusetts.

12. *Taxonus uncinatus*.

*Taxonus uncinatus*, *Nort. Proc. Bost. Soc.* ix. p. 119 (1862); *id. Trans. Amer. Ent. Soc.* ii. p. 211 (1868).

*Hab.* Connecticut.

13. *Taxonus multicolor*.

*Strongylogaster multicolor*, *Nort. Proc. Bost. Soc.* ix. p. 120 (1862).  
*Taxonus multicolor*, *Nort. Trans. Amer. Ent. Soc.* i. p. 212 (1868).

*Hab.* North America.

14. *Taxonus* (?) *dubitatus*.

*Taxonus dubitatus*, *Nort. Proc. Bost. Soc.* ix. p. 119 (1862).

*Hab.* United States.

15. *Taxonus* (?) *amicus*.

*Taxonus amicus*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 213, n. 5 (1868).

*Hab.* Canada.

16. *Taxonus* (?) *albidopictus*.

*Taxonus albidopictus*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 213 (1868).

*Hab.* United States.

17. *Taxonus longipennis*.

*Taxonus longipennis*, *Cameron, Trans. Ent. Soc.* 1878, p. 141.

*Hab.* Brazil.

## 86. STRONGYLOGASTER.

*Strongylogaster*, *Dahlb. Consp. Tenth.* pp. 4, 13 (1835); *Hart. Blattw.* p. 299 (1837).

A. *Europæo-Asiatic Species, including Japan.*1. *Strongylogaster filicis*.

*Tenthredo* (*Allantus*) *filicis*, *Klug, Berl. Mag.* viii. p. 216, n. 174 (1818).

*Strongylogaster filicis*, *Thoms. Hym. Scand.* i. p. 242 (1871).

♂. *Tenthredo* (*Allantus*) *carinata*, *Klug, Berl. Mag.* viii. p. 216 n. 175 (1818).

*Hab.* Central Europe.

a, b. ♂ ♀.

Germany.

J. F. Ruthe.

c. ♀.

Sweden.

## 2. *Strongylogaster subjecta*.

*Tenthredo subjecta*, *Eversm. Bull. Mosc.* xx. p. 44 (1847).

*Hab.* Kasan.

## 3. *Strongylogaster sharpi*.

*Strongylogaster sharpi*, *Cameron, Ent. M. Mag.* xvi. p. 64 (1879).

*Hab.* Dumfriesshire.

## 4. *Strongylogaster multifasciata*.

*Tenthredo multifasciata*, *Fourcr. Ent. Par.* ii. p. 368, n. 14 (1785).

*Tenthredo cingulata*, *Fabr. Ent. Syst.* ii. p. 113, n. 34 (1793).

*Tenthredo* (*Allantus*) *cingulata*, *Klug, Berl. Mag.* viii. p. 215, n. 173 (1818).

*Strongylogaster cingulatus*, *Costa, Faun. Nap., Tentr.* p. 107, pl. lxxviii. figs. 2, 3 (1859).

*Strongylogaster cingulata*, *Thoms. Hym. Scand.* i. p. 242 (1871).

♂. *Tenthredo* (*Allantus*) *linearis*, *Klug, Berl. Mag.* viii. p. 217, n. 178 (1818).

*Tenthredo alternans*, *St.-Farg. Mon. Tenth.* p. 73, n. 219 (1823).

*Hab.* Europe.

a-n. ♂ ♀.

Britain.

J. F. Stephens.

o. ♀.

Britain.

F. Bond, Esq.

p. ♀.

Britain.

q-aa. ♂ ♀.

Germany.

J. F. Ruthe.

bb, cc. ♀.

Europe.

## 5. *Strongylogaster geniculata*.

*Strongylogaster geniculata*, *Thoms. Hym. Scand.* i. p. 243, n. 3 (1871).

*Hab.* Sweden.

## 6. *Strongylogaster macula*.

*Tenthredo* (*Allantus*) *macula*, *Klug, Berl. Mag.* viii. p. 217, n. 177 (1818).

*Strongylogaster macula*, *Thoms. Hym. Scand.* i. p. 243 (1871).

*Hab.* Europe.

7. *Strongylogaster eborina*.

*Tenthredo* (Allantus) *eborina*, *Klug, Berl. Mag.* viii. p. 196, n. 141 (1818).

*Hab.* Central Europe..

|  |          |                 |
|--|----------|-----------------|
| <i>a-d.</i> ♂ ♀.                                 | Britain. | J. F. Stephens. |
| <i>e.</i> ♂. (As <i>Melicerta ochroleucus</i> .) | Britain. | J. F. Stephens. |
| <i>f, g.</i> ♀.                                  | Britain. |                 |
| <i>h-r.</i> ♂ ♀.                                 | Germany. | J. F. Ruthe.    |

8. *Strongylogaster mixta*.

*Tenthredo* (Allantus) *mixta*, *Klug, Berl. Mag.* viii. p. 217, n. 176 (1818).

*Strongylogaster mixta*, *Thoms. Hym. Scand.* i. p. 244 (1871).

*Hab.* Germany.

9. *Strongylogaster femoralis*.

*Strongylogaster femoralis*, *Cameron, Ent. M. Mag.* xi. p. 250 (1875).

*Hab.* Paisley.

10. *Strongylogaster delicatula*.

*Tenthredo delicatula*, *Fall. Vet.-Akad. Handl.* xxix. p. 122 (1808).

*Strongylogaster delicatula*, *Thoms. Opusc. Ent.* ii. p. 244, n. 4 (1870); *id. Hym. Scand.* i. p. 244, n. 6 (1871).

*Hab.* Sweden.

|              |         |
|--------------|---------|
| <i>a.</i> ♂. | Sweden. |
|--------------|---------|

11. *Strongylogaster iridipennis*.

(Plate IX. fig. 8.)

*Strongylogaster iridipennis*, *Smith, Tr. Ent. Soc.* 1874, p. 377.

Exp. al. 7 lin., long. corp. 4 lin.

Black; wings hyaline and iridescent, nervures piceous; tegulæ and cenchri white; legs rufous; coxæ, trochanters, tip of hind tibiæ, and hind tarsi black; hind tibiæ whitish at the base. Abdomen slightly carinated in the middle above; segments 3-5 narrowly bordered behind with ferruginous; segments 3-6 wholly ferruginous beneath.

*Hab.* Japan.

|                                 |           |                  |
|---------------------------------|-----------|------------------|
| <i>a.</i> ♂. (Type of species.) | Hakodadi. | H. Whitely, Esq. |
|---------------------------------|-----------|------------------|

B. *North-American Species, including Mexico.*12. *Strongylogaster terminalis.*

*Tenthredo terminalis*, Say, *Long's Second Exped.* ii. p. 318 (1824).  
*Allantus et Strongylogaster terminalis et mellosus*, *Nort. Bost. Journ.*  
 vii. pp. 236 & 237 (1860), ix. p. 120 (1862); *id. Trans. Amer. Ent.*  
*Soc.* ii. p. 215 (1868).

*Hab.* United States.

*a-e.* ♀. Trenton Falls, New York. E. Doubleday.  
*f-h.* ♀.

13. *Strongylogaster pallidicornis.*

*Strongylogaster pallidicornis*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 216,  
 n. 3 (1868).

*Hab.* United States.

14. *Strongylogaster apicalis.*

*Allantus apicalis*, Say, *Bost. Journ.* i. p. 216, n. 3 (1835).  
*Strongylogaster apicalis*, *Nort. Proc. Bost. Soc.* ix. p. 120 (1862); *id.*  
*Trans. Amer. Ent. Soc.* ii. p. 216 (1868).  
*Allantus abdominalis*, *Nort. Bost. Journ.* vii. p. 238, n. 4 (1860).  
*Strongylogaster abdominalis*, *Nort. Proc. Bost. Soc.* ix. p. 120 (1862).

*Hab.* United States.

*a-d.* ♂. New York. E. Doubleday.  
*e, f.* ♂ ♀. United States.

15. *Strongylogaster epicera.*

*Allantus epicera*, Say, *Bost. Journ.* i. p. 216 (1835); *Nort. Bost.*  
*Journ.* vii. p. 243, n. 15 (1860).  
*Strongylogaster epicera*, *Nort. Proc. Bost. Soc.* ix. p. 120 (1862); *id.*  
*Trans. Amer. Ent. Soc.* ii. p. 217 (1868).

*Hab.* North America.

16. *Strongylogaster rufocinctus.*

*Allantus rufocinctus*, *Nort. Bost. Journ.* vii. p. 248, n. 25 (1860).  
*Strongylogaster rufocinctus*, *Nort. Proc. Bost. Soc.* ix. p. 120 (1862);  
*id. Trans. Amer. Ent. Soc.* ii. p. 217 (1868).

*Hab.* North America.

17. *Strongylogaster impressatus.*

*Strongylogaster impressatus*, *Provancher, Nat. Canad.* x. p. 170  
 (1878).

*Hab.* Canada.

18. *Strongylogaster pallipes*.

Allantus pallipes, *Say, West. Quart. Rep.* ii. p. 72 (1823) *Nort. Bost. Journ.* vii. p. 243, n. 16 (1860).

*Strongylogaster pallipes*, *Nort. Proc. Bost. Soc.* ix. p. 120 (1862); *id. Trans. Amer. Ent. Soc.* ii. p. 218 (1868).

*Hab.* United States.

*a.* ♀.

United States.

19. *Strongylogaster pinguis*.

Allantus pinguis, *Nort. Bost. Journ.* vii. p. 244, n. 17 (1860).

*Strongylogaster pinguis*, *Nort. Proc. Bost. Soc.* ix. p. 120 (1862); *id. Trans. Amer. Ent. Soc.* ii. p. 218 (1868).

*Hab.* North America.

20. *Strongylogaster tacitus*.

Allantus tacitus, *Nort. Bost. Journ.* vii. p. 246, n. 20 (1860).

*Strongylogaster tacitus*, *Nort. Proc. Bost. Soc.* ix. p. 120 (1862); *id. Trans. Amer. Ent. Soc.* ii. p. 219 (1868).

*Hab.* North America.

21. *Strongylogaster rufescens*.

Allantus rufescens, *Nort. Bost. Journ.* vii. p. 245, n. 19 (1860).

*Strongylogaster rufescens*, *Nort. Proc. Bost. Soc.* ix. p. 120 (1862); *id. Trans. Amer. Ent. Soc.* ii. p. 220 (1868).

*Hab.* Maine.

22. *Strongylogaster longulus*.

*Strongylogaster longulus*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 220, n. 11 (1868).

*Hab.* United States.

23. *Strongylogaster distans*.

*Strongylogaster distans*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 220, n. 12 (1868).

*Hab.* Western United States.

24. *Strongylogaster fidus*.

*Strongylogaster fidus*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 19 (1880).

*Hab.* Western United States.

**25. Strongylogaster multicinctus.**

*Strongylogaster multicinctus*, *Nort. Proc. Ent. Soc. Phil.* i. p. 143 (1862); *id. Trans. Amer. Ent. Soc.* ii. p. 221 (1868).

*Hab.* Virginia.

**26. Strongylogaster labiatus.**

*Tenthredo* (Allantus) *labiata*, *Klug, Berl. Mag.* viii. p. 73, n. 56 (1818).

*Hab.* Georgia\*.

**27. Strongylogaster annulosus.**

*Strongylogaster annulosus*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 221, n. 14 (1868).

*Hab.* United States.

a. ♀.

St. John's Bluff, East Florida.

R. Foster.

**28. Strongylogaster tibialis.**

*Strongylogaster tibialis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 19 (1880).

*Hab.* Nevada.

**29. Strongylogaster rubripes.**

*Strongylogaster rubripes*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 20 (1880).

*Hab.* Colorado.

**30. Strongylogaster politus.**

*Strongylogaster politus*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 20 (1880).

*Hab.* Canada.

**31. Strongylogaster soriculatipes.**

*Strongylogaster soriculatipes* (*Prov. MS.*), *Cress. Trans. Amer. Ent. Soc.* viii. p. 20 (1880).

*Hab.* North America.

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\* Judging from the description, this species would appear to be closely allied to *S. annulosus*, Nort.

**32. Strongylogaster unicus.**

*Strongylogaster unicus*, *Nort. Proc. Bost. Soc.* ix. p. 120 (1862);  
*id. Trans. Amer. Ent. Soc.* ii. p. 221 (1868).

*Hab.* New York.

**33. Strongylogaster meritorius.**

*Strongylogaster meritorius*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 221,  
n. 16 (1868).

*Hab.* Mexico.

**34. Strongylogaster nigritorius.**

*Strongylogaster nigritorius*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 222,  
n. 17 (1868).

*Hab.* Mexico.

**35. Strongylogaster illuminatus.**

*Strongylogaster illuminatus*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 222,  
n. 18 (1868).

*Hab.* Mexico.

**36. Strongylogaster fulviventris.**

*Strongylogaster fulviventris*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 222,  
n. 19 (1868).

*Hab.* Mexico.

**37. Strongylogaster lineatus.**

*Strongylogaster lineatus*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 223,  
n. 20 (1868).

*Hab.* Mexico.

**38. Strongylogaster nigricans.**

*Strongylogaster nigricans*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 223,  
n. 21 (1868).

*Hab.* Mexico.

**39. Strongylogaster nigredo.**

*Strongylogaster nigredo*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 223,  
n. 22 (1868).

*Hab.* Mexico.

## Subfamily X. DOLERINÆ.

## 87. DOLERUS.

*Dolerus*, *Jur. Hym.* p. 56 (1807).

A. *Europæo-Asiatic Species, including Japan and North China.*

1. *Dolerus pratensis*.

*Tenthredo pratensis*, *Linn. Syst. Nat.* i. p. 556, n. 13 (1758).

*Dolerus pratensis*, *Thoms. Hym. Scand.* i. p. 284 (1871).

*Tenthredo abietis*, *Linn. Syst. Nat.* i. p. 558, n. 27 (1758); *id. Faun. Suec.* p. 396 (1761).

*Tenthredo germanica*, *Fabr. Syst. Ent.* p. 321, n. 21 (1775).

*Tenthredo eglanteriæ*, *Fabr. Ent. Syst.* ii. p. 109, n. 29 (1793).

*Tenthredo* (*Dolerus*) *eglanteriæ*, *Klug, Berl. Mag.* viii. p. 291, n. 218 (1818).

*Dolerus eglanteriæ*, *Costa, Faun. Nap., Ins.* p. 33, pl. lxvi. figs. 1 & 2 (1859).

*Tenthredo pedestris*, *Panz. Faun. Germ.* Heft 82, pl. xi. (1801).

*Tenthredo melanocephala*, *Fourcr. Ent. Par.* ii. p. 364, n. 3 (1785).

*Tenthredo fulviventris*, *Scop. Ent. Carn.* p. 280, n. 736 (1763).

*Dosytheus hyalinalis et xanthopus*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 83 (1835).

*Hab.* Europe.

|  |          |                    |
|--|----------|--------------------|
| <i>a-cc.</i> ♂ ♀.                              | Britain. | J. F. Stephens.    |
| <i>dd.</i> ♀. (Type of <i>D. hyalinalis</i> .) | Britain. | J. F. Stephens.    |
| <i>ee.</i> ♀. (Type of <i>D. xanthopus</i> .)  | Britain. | J. F. Stephens.    |
| <i>ff-mm.</i> ♂ ♀.                             | Germany. | J. F. Ruthe.       |
| <i>nn.</i> ♀.                                  | Bohemia. | Prof. N. M. Kheil. |
| <i>oo-qq.</i> ♀.                               | Italy.   | W. E. Leach.       |
| <i>rr-vv.</i> ♂ ♀.                             | Munich.  | H. Buchecker.      |
| <i>ww-aaa.</i> ♂ ♀.                            | Zurich.  | H. Buchecker.      |

2. *Dolerus arcticus*.

*Dolerus arcticus*, *Thoms. Hym. Scand.* i. p. 284 (1871).

*Hab.* Lapland.

3. *Dolerus æriceps*.

*Dolerus æriceps*, *Thoms. Hym. Scand.* i. p. 285 (1871).

*Hab.* Sweden.

4. *Dolerus lateritius*.

*Tenthredo* (*Dolerus*) *lateritia*, *Klug, Berl. Mag.* viii. p. 295, n. 220 (1818).

*Dolerus lateritius*, *Thoms. Hym. Scand.* i. p. 287 (1871).

*Tenthredo* (*Dolerus*) *madida*, *Klug, Berl. Mag.* viii. p. 298, n. 224 (1818).

*Hab.* Europe.

|                  |             |                 |
|------------------|-------------|-----------------|
| <i>a-k.</i> ♂ ♀. | Britain.    | J. F. Stephens. |
| <i>l-q.</i> ♂ ♀. | England.    | G. Taylor, Esq. |
| <i>r-v.</i> ♂ ♀. | Germany.    | J. F. Ruthe.    |
| <i>w.</i> ♀.     | Munich.     | H. Buchecker.   |
| <i>x.</i> ♂.     | Munich (P). | H. Buchecker.   |
| <i>y.</i> ♂.     | Zurich.     | H. Buchecker.   |



5. *Dolerus hispanicus*.

*Dolerus hispanicus*, *Mócs. Term. füzetek*, v. p. 29 (1885); *André, Spec. Hym.* i. p. 580 (1881).

*Hab.* Granada.

6. *Dolerus triplicatus*.

*Tenthredo* (*Dolerus*) *triplicatus*, *Klug, Berl. Mag.* viii. p. 295, n. 221 (1818).

*Dolerus* 3-plicatus, *Thoms. Hym. Scand.* i. p. 286 (1871).

*Dolerus trimaculatus*, *St.-Farg. Mon. Tenth.* p. 121, n. 358 (1823).

*Dolerus lugubris*, *Gimm. Bull. Mosc.* vii. p. 125 (1834).

*Dolerus dimidiatus* ♀, *Brullé, Hym.* iv. pl. xlvii. fig. 2 (1846).

*Hab.* Europe.

|       |          |               |
|-------|----------|---------------|
| a. ♀. | Germany. | Dr. Klug.     |
| b. ♀. | Germany. | J. F. Ruthe.  |
| c. ♂. | Munich.  | H. Buchecker. |

7. *Dolerus anticus*.

*Tenthredo* (*Dolerus*) *antica*, *Klug, Berl. Mag.* viii. p. 294, n. 219 (1818).

*Dolerus anticus*, *Thoms. Hym. Scand.* i. p. 287 (1871).

*Tenthredo* (*Dolerus*) *uliginosus*, *Klug, Berl. Mag.* viii. p. 297, n. 223 (1818).

*Dosytheus fuscipennis*, *Steph. Ill. Brit. Ent., Haust.* vii. p. 35 (1835).

*Dolerus dimidiatus*, *St.-Farg. Mon. Tenth.* p. 122, n. 263 (1823); *Brullé, Hym.* iv. pl. xlvii. fig. 1 (1846).

*Dolerus ferrugatus*, *St.-Farg. Mon. Tenth.* p. 122, n. 366 (1823).

*Hab.* Europe.

|              |          |                 |
|--------------|----------|-----------------|
| a-d. ♀.      | Britain. | J. F. Stephens. |
| e-k. ♂ ♀.    | Germany. | J. F. Ruthe.    |
| l. ♀.        | Europe.  |                 |
| m-o. ♂ ♀.    | Zurich.  | H. Buchecker.   |
| p. ♀ (var.). | Europe.  | H. Buchecker.   |

8. *Dolerus geniculatus*.

*Dolerus geniculatus*, *St.-Farg. Mon. Tenth.* p. 122, n. 364 (1823).

*Dolerus chappelli*, *Cameron, Ent. M. Mag.* xiv. p. 155 (1877).

*Hab.* England; France.

9. *Dolerus pachycerus*.

*Tenthredo* (*Dolerus*) *thoracica*, *Klug (nec Beauv.), Berl. Mag.* viii. p. 304, n. 139 (1818).

*Dolerus pachycerus*, *Hart. Blattw.* p. 238, n. 26 (1818); *Zadd. Blattw.* p. 23 (1859).

? *Dolerus brevicornis* (*nec Zadd.*) et *thoracicus* (*nec Beauv.*), *Thoms. Hym. Scand.* i. p. 288 (1871).

*Hab.* Germany; Sweden.

10. *Dolerus incertus*.

*Dolerus incertus*, *Zadd. Blattw.* p. 21 (1859).

*Hab.* Germany.

11. *Dolerus brevicornis*.

*Dolerus brevicornis*, *Zadd. Blattw.* p. 25 (1859).

*Hab.* Prussia.

12. *Dolerus asper*.

*Dolerus asper*, *Zadd. Blattw.* p. 21 (1859).

*Hab.* Germany.

a. ♂.

Aix-la-Chapelle.

Prof. Förster.

13. *Dolerus saxatilis*.

*Dolerus saxatilis*, *Hart. Blattw.* p. 233, n. 5 (1837).

*Hab.* Harz.

14. *Dolerus palustris*.

*Tenthredo* (*Dolerus*) *palustris*, *Klug, Berl. Mag.* viii. p. 296, n. 222 (1818).

*Dosytheus junci et fuscipennis*, *Steph. Ill. Brit. Ent., Mand.* vii. pp. 84 & 85 (1835).

*Dolerus palustris*, *Thoms. Hym. Scand.* i. p. 283 (1871).

*Dolerus cothurnatus*, *St.-Farg. Mon. Tenth.* p. 123, n. 366 (1823).

*Hab.* Europe.

a. ♀. (Type of *D. junci*)

England.

J. F. Stephens.

b. ♀. (Type of *D. fuscipennis*)

S. Scotland.

J. F. Stephens.

c, d. ♂ ♀.

Britain.

e-t. ♂ ♀.

Germany.

J. F. Ruthe.

u-w. ♂.

Munich.

H. Buchecker.

x-aa. ♂ ♀.

Zurich.

H. Buchecker.

bb. ♂.

Europe.

H. Buchecker.

15. *Dolerus busæi*.

*Dolerus busæi*, *Vollenh. Herklots Bouwstoffen*, ii. p. 277 (1858).

*Hab.* Holland.

16. *Dolerus pratorum*.

*Tenthredo pratorum*, *Fallén, Vetensk. Handl.* xxix. p. 64, n. 27 (1808).

*Dolerus pratorum*, *Thoms. Hym. Scand.* i. p. 281 (1871).

*Tenthredo* (*Dolerus*) *equiseti*, *Klug, Berl. Mag.* viii. p. 298, n. 225 (1818).

*Hab.* Central Europe.

a-h. ♂ ♀.

Germany.

J. F. Ruthe.

17. *Dolerus etruscus*.

*Tenthredo* (*Dolerus*) *etrusca*, *Klug, Berl. Mag.* viii. p. 299, n. 226 (1818).

*Hab.* Parma.

18. *Dolerus tremula*.

*Tenthredo* (*Dolerus*) *tremula*, *Klug, Berl. Mag.* viii. p. 299, n. 227 (1818).

*Hab.* Germany.

19. *Dolerus dubius*.

*Tenthredo* (*Dolerus*) *dubia*, *Klug, Berl. Mag.* viii. p. 299, n. 228 (1818).

*Dolerus dubius*, *Thoms. Hym. Scand.* i. p. 282 (1871).

*Hab.* Europe.

|                  |          |               |
|------------------|----------|---------------|
| <i>a-d.</i> ♂ ♀. | Germany. | J. F. Ruthe.  |
| <i>e.</i> ♀.     | Munich.  | H. Buchecker. |
| <i>f.</i> ♂.     | Zurich.  | H. Buchecker. |
| <i>g.</i> ♂.     | Europe.  | H. Buchecker. |

20. *Dolerus timidus*.

*Tenthredo* (*Dolerus*) *timidus*, *Klug, Berl. Mag.* viii. p. 300, n. 229 (1818).

*Dolerus timidus*, *Thoms. Hym. Scand.* i. p. 282 (1871).

*Tenthredo abietis*, *Panz. Faun. Germ.* Heft 65, pl. iii. (1799).

*Hab.* Europe.

|                  |          |              |
|------------------|----------|--------------|
| <i>a-c.</i> ♂ ♀. | Germany. | J. F. Ruthe. |
|------------------|----------|--------------|

21. *Dolerus desertus*.

*Tenthredo* (*Dolerus*) *deserta*, *Klug, Berl. Mag.* viii. p. 300, n. 230 (1818).

*Hab.* Germany.

|              |          |              |
|--------------|----------|--------------|
| <i>a.</i> ♀. | Germany. | J. F. Ruthe. |
|--------------|----------|--------------|

22. *Dolerus bimaculatus*.

*Tenthredo bimaculata*, *Fourcr. Ent. Par.* ii. p. 368, n. 16 (1785).

*Tenthredo tristis*, *Fabr. Syst. Piez.* p. 39, n. 50 (1804).

*Tenthredo* (*Dolerus*) *tristis*, *Panz. Faun. Germ.* Heft 98, pl. xi. (1809); *Klug, Berl. Mag.* viii. p. 301, n. 231 (1818).

*Dolerus tristis*, *Thoms. Hym. Scand.* i. p. 283 (1871).

*Hab.* Europe.

|                  |          |               |
|------------------|----------|---------------|
| <i>a, b.</i> ♀.  | Germany. | J. F. Ruthe.  |
| <i>c-f.</i> ♂ ♀. | Zurich.  | H. Buchecker. |

23. *Dolerus palmatus*.

*Tenthredo* (*Dolerus*) *palmata*, *Klug, Berl. Mag.* viii. p. 303, n. 256 (1818).

*Dolerus palmatus*, *Thoms. Hym. Scand.* i. p. 279 (1871).

*Hab.* Europe.

|                  |             |                 |
|------------------|-------------|-----------------|
| <i>a-f.</i> ♂ ♀. | Britain.    | J. F. Stephens. |
| <i>g.</i> ♂.     | Britain.    |                 |
| <i>h-l.</i> ♂ ♀. | Germany.    | J. F. Ruthe.    |
| <i>m.</i> ♀.     | Europe.     |                 |
| <i>n.</i> ♀.     | Munich (?). | H. Buchecker.   |

24. *Dolerus picipes*.

*Tenthredo* (*Dolerus*) *picipes*, *Klug, Berl. Mag.* viii. p. 303, n. 237 (1818).

*Hab.* Britain; Germany.

|              |          |                 |
|--------------|----------|-----------------|
| <i>a.</i> ♀. | Britain. | J. F. Stephens. |
|--------------|----------|-----------------|

25. *Dolerus magnicornis*.

*Dolerus magnicornis*, *Eversm. Bull. Mosc.* xx. p. 25, n. 12 (1847).

*Hab.* Orenburg.

26. *Dolerus tenebrosus*.

*Dolerus tenebrosus*, *Eversm. Bull. Mosc.* xx. p. 25, n. 13 (1847).

*Hab.* Kasan.

27. *Dolerus opacus*.

*Tenthredo opaca*, *Fabr. Syst. Ent.* p. 323, n. 31 (1775); *Panz. Faun. Germ.* Heft 52, pl. x. (1798).

*Tenthredo hæmatodes*, *Schrank, Enum. Ins. Austr.* p. 336, n. 678 (1781); *id. Fauna Boica*, ii. pt. 2, p. 251 (1802).

*Tenthredo* (*Dolerus*) *hæmatodes*, *Klug, Berl. Mag.* viii. p. 304, n. 238 (1818).

*Dolerus opacus*, *Jur. Hym.* pl. vi. gen. 4 (1807).

*Dolerus hæmatodes*, *Thoms. Hym. Scand.* i. p. 289 (1871); *Vollenh. Tijdschr. Ent.* xxiii. p. 14, pl. iii. (lower figs.) (1880).

*Dolerus cærulescens*, *Hart. Blattw.* p. 242 (1837).

*Dolerus micans*, *Zadd. Blattw.* p. 18 (1859).

*Hab.* Europe.

|                 |                  |                 |
|-----------------|------------------|-----------------|
| <i>a-g.</i> ♀.  | Britain.         | J. F. Stephens. |
| <i>h.</i> ♀.    | West of England. | W. E. Leach.    |
| <i>i.</i> ♀.    | Britain.         |                 |
| <i>k, l.</i> ♀. | England.         | G. Taylor, Esq. |
| <i>m-r.</i> ♀.  | Germany.         | J. F. Ruthe.    |
| <i>s, t.</i> ♀. | Munich.          | H. Buchecker.   |
| <i>u.</i> ♂.    | Munich (?).      | H. Buchecker.   |

28. *Dolerus ravus*.

*Dolerus ravus*, *Zadd. Blattw.* p. 18 (1859).

*Hab.* Danzig.

29. *Dolerus gracilis*.

*Dolerus gracilis*, *Zadd. Blattw.* p. 19 (1859).

*Hab.* Germany.

30. *Dolerus brevis*.

*Dolerus brevis*, *Zadd. Blattw.* p. 19 (1859).

*Hab.* Königsberg.

31. *Dolerus eversmanni*.

*Dolerus fumosus*, *Eversm. (nec Steph.)*, *Bull. Mosc.* xx. p. 24, n. 8 (1847).

*Hab.* Kasan.

32. *Dolerus sanguinicollis*.

*Dolerus sanguinicollis*, *Klug, Berl. Mag.* viii. p. 305, n. 240 (1818).

*Hab.* Austria.

33. *Dolerus rufotorquatus*.

*Dolerus rufotorquatus*, *Costa, Ann. Mus. Nap.* ii. p. 97 (1864).

*Hab.* Parma.

34. *Dolerus crassus*.

*Tenthredo crassa*, *Scop. Ent. Carn.* p. 279, n. 730 (1763); *Panz. Faun. Germ.* Heft 65, pl. iv. (1799).

*Tenthredo gonagra*, *Fabr. Spec. Ins.* i. p. 412, n. 32 (1781).

*Dolerus gonager*, *Thoms. Hym. Scand.* i. p. 285 (1871).

*Tenthredo erythrogonia*, *Schrank, Enum. Ins. Austr.* p. 338, n. 681 (1781); *id. Fauna Boica*, ii. pt. 2, p. 248 (1802).

*Dolerus femoratus*, *Eversm. Bull. Mosc.* xx. p. 24 (1847).

*Tenthredo geniculata*, *Fourcr. Ent. Par.* ii. p. 374, n. 31 (1785).

*Hab.* Europe.

|                    |          |                    |
|--------------------|----------|--------------------|
| <i>a-l.</i> ♂ ♀.   | Britain. | J. F. Stephens.    |
| <i>m, n.</i> ♀.    | Britain. |                    |
| <i>o.</i> ♂.       | France.  |                    |
| <i>p-u.</i> ♂ ♀.   | Germany. | J. F. Ruthe.       |
| <i>v, w.</i> ♀.    | Bohemia. | Prof. N. M. Kheil. |
| <i>x.</i> ♂.       | Europe.  |                    |
| <i>y-dd.</i> ♂ ♀.  | Munich.  | H. Buchecker.      |
| <i>ee-hh.</i> ♂ ♀. | Zurich.  | H. Buchecker.      |

35. *Dolerus puncticollis*.

*Dolerus puncticollis*, *Thoms. Hym. Scand.* i. p. 286 (1871).

*Hab.* Sweden.

36. *Dolerus scoticus*.

*Dolerus scoticus*, *Cam. Ent. M. Mag.* xvii. p. 206 (1881).

*Hab.* Braemar.

37. *Dolerus liogaster*.

*Dolerus liogaster*, *Thoms. Hym. Scand.* i. p. 286 (1871).

*Hab.* Sweden.

38. *Dolerus vestigialis*.

*Dolerus vestigialis*, *Klug, Berl. Mag.* viii. p. 305, n. 242 (1818);  
*Thoms. Hym. Scand.* i. p. 280 (1871).

*Dolerus rufipes*, *St.-Farg. Mon. Tenth.* p. 124, n. 369 (1823).

*Hab.* Europe.

|                  |          |                 |
|------------------|----------|-----------------|
| <i>a.</i> ♂.     | Britain. | J. F. Stephens. |
| <i>b-n.</i> ♂ ♀. | Germany. | J. F. Ruthe.    |
| <i>o-s.</i> ♂ ♀. | Munich.  | H. Buchecker.   |
| <i>t.</i> ♀.     | Munich.  | H. Buchecker.   |

39. *Dolerus gessneri*.

*Dolerus gessneri*, *André, Spec. Hym.* i. p. 273 (1880).

*Hab.* Switzerland ; Scotland.

40. *Dolerus tinctipennis*.

*Dolerus tinctipennis*, *Cam. Trans. Ent. Soc. Lond.* 1881, p. 574.

*Hab.* Britain.

41. *Dolerus genucinctus*.

*Dolerus genucinctus*, *Zadd. Blattw.* p. 13 (1859).

*Hab.* Germany ; Sweden.

42. *Dolerus plaga*.

*Tenthredo* (*Dolerus*) *plaga*, *Klug, Berl. Mag.* viii. p. 306, n. 243 (1818).

*Hab.* Austria.

43. *Dolerus annulipes*.

*Dolerus annulipes*, *Thoms. Hym. Scand.* i. p. 280 (1871).

*Hab.* Lapland.

44. *Dolerus gilvipes*.

*Tenthredo* (*Dolerus*) *gilvipes*, *Klug, Berl. Mag.* viii. p. 306, n. 244 (1818).

*Dolerus gilvipes*, *Thoms. Hym. Scand.* i. p. 281 (1871).

*Hab.* Germany.

45. *Dolerus niger*.

*Tenthredo nigra*, *Linn. Syst. Nat.* i. pt. 2, p. 925, n. 34 (1767).

*Tenthredo* (*Dolerus*) *nigra*, *Klug, Berl. Mag.* viii. p. 301, n. 252 (1818).

*Dolerus niger*, *Zadd. Blattw.* p. 22 (1859) ; *Costa, Faun. Nap., Tentr.* p. 34 (1859) ; *Thoms. Hym. Scand.* i. p. 289 (1871).

*Hab.* Europe.

|                   |                                   |                        |
|-------------------|-----------------------------------|------------------------|
| <i>a-e.</i> ♂ ♀.  | Britain.                          | J. F. Stephens.        |
| <i>f-h.</i> ♀.    | Britain.                          |                        |
| <i>i, k.</i> ♀.   | Eastern Maudit, Northamptonshire. | C. O. Waterhouse, Esq. |
| <i>l-w.</i> ♂ ♀.  | Germany.                          | J. F. Ruthe.           |
| <i>x.</i> ♀.      | Bohemia.                          | Prof. N. M. Kheil.     |
| <i>y-dd.</i> ♂ ♀. | Munich.                           | H. Buchecker.          |

46. *Dolerus carinatus*.

*Dolerus carinatus*, Scholtz, *Arb. schles. Ges. vaterl. Cultur*, 1847, p. 111.

*Hab.* Germany.

47. *Dolerus anthracinus*.

*Tenthredo* (*Dolerus*) *anthracina*, Klug, *Berl. Mag.* viii. p. 302, n. 233 (1818).

*Dolerus anthracinus*, Zadd. *Blattw.* p. 16 (1859); Thoms. *Hym. Scand.* i. p. 291 (1871).

*Dolerus leucobasis*, Hart. *Blattw.* p. 240, n. 31 (1837).

*Dolerus fissus*, Hart. *Blattw.* p. 243, n. 37 (1837); Zadd. *Blattw.* p. 24 (1859).

♀. *Dolerus cenchris*, Hart. *Blattw.* p. 240, n. 32 (1837); Thoms. *Hym. Scand.* i. p. 290 (1871).

*Dolerus planatus*, var. 1, Hart. *Blattw.* p. 243 (1837).

*Dolerus hartigii*, Scholtz, *Arb. schles. Ges. vaterl. Cultur*, 1847, p. 109.

*Hab.* Europe.

|                    |                   |                 |
|--------------------|-------------------|-----------------|
| <i>a-m.</i> ♂ ♀.   | Britain.          | J. F. Stephens. |
| <i>n.</i> ♀.       | North of England. | W. E. Leach.    |
| <i>o-r.</i> ♂ ♀.   | Britain.          |                 |
| <i>s, t.</i> ♂ ♀.  | Germany.          | J. F. Ruthe.    |
| <i>u.</i> ♀.       | Aix-la-Chapelle.  | Prof. Förster.  |
| <i>v-bb.</i> ♂ ♀.  | Munich.           | H. Buchecker.   |
| <i>cc-ee.</i> ♂ ♀. | Zurich.           | H. Buchecker.   |

48. *Dolerus megapterus*.

*Dolerus megapterus*, Cam. *Trans. Ent. Soc. Lond.* 1881, p. 574.

*Hab.* Manchester.

49. *Dolerus carbonarius*.

*Dolerus carbonarius*, Zadd. *Blattw.* p. 24 (1859).

*Tenthredo* (*Dolerus*) *anthracina* ♀, Klug, *Berl. Mag.* viii. p. 302, n. 233 (1818).

*Hab.* Germany.

50. *Dolerus lucens*.

*Dolerus lucens*, André, *Spec. Hym.* i. p. 277 (1880).

*Hab.* Hungary.

51. *Dolerus zaddachi*.

*Dolerus fumosus*, Zadd. (*nec Steph.; nec Eversm.*) *Blattw.* p. 22 (1859).

*Hab.* Prussia.

52. *Dolerus nitens*.

*Dolerus nitens*, Zadd. *Blattw.* p. 16 (1859).

*Hab.* Germany.

53. *Dolerus stygius*.

*Dolerus stygius*, *Först. Verh. Ver. Rheinl.* xvii. p. 141 (1860).

*Hab.* Germany.

*a.* ♀.

Aix-la-Chapelle.

Prof. Förster.

54. *Dolerus coracinus*.

*Tenthredo* (*Dolerus*) *coracina*, *Klug, Berl. Mag.* viii. p. 302, n. 234 (1818).

*Dolerus coracinus*, *Thoms. Hym. Scand.* i. p. 292 (1871).

*Dolerus atricapillus*, *Hart. Blattw.* p. 239, n. 29 (1837); *Zadd. Blattw.* p. 17 (1859).

*Hab.* Germany.

*a-h.* ♂ ♀.

Munich.

H. Buchecker.

*i, k.* ♂ ♀.

Munich (?).

H. Buchecker.

55. *Dolerus longicornis*.

*Dolerus longicornis*, *Zadd. Blattw.* p. 17 (1859).

*Hab.* Königsberg.

56. *Dolerus mutilatus*.

*Tenthredo* (*Dolerus*) *mutilata*, *Klug, Berl. Mag.* viii. p. 303, n. 255 (1818).

*Hab.* Central Europe.

*a.* ♀.

Britain.

J. F. Stephens.

57. *Dolerus fennicus*.

*Dolerus fennicus*, *André, Spec. Hym.* i. p. 269 (1880).

*Hab.* Finland.

58. *Dolerus varispinus*.

*Dolerus varispinus*, *Hart. Blattw.* p. 239, n. 30 (1837); *Thoms. Hym. Scand.* i. p. 292 (1871).

*Dolerus brevitarsus*, *Hart. Blattw.* p. 243, n. 38 (1837).

*Hab.* Germany.

59. *Dolerus intermedius*.

*Dolerus intermedius*, *Cam. Trans. Ent. Soc. Lond.* 1881, p. 575.

*Hab.* Britain.

60. *Dolerus planatus*.

*Dolerus planatus*, *Hart. (excl. var.) Blattw.* p. 243, n. 39 (1837).

*Hab.* Germany.



61. *Dolerus fumosus*.

*Dolerus fumosus*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 87 (1835).

*Dolerus æneus*, *Hart. Blattw.* p. 241 (1837); *Zadd. Blattw.* p. 20 (1859); *Thoms. Hym. Scand.* i. p. 293 (1871).

*Hab.* Europe.

|                           |                  |                 |
|---------------------------|------------------|-----------------|
| <i>a-d.</i> ♂ ♀. (Types.) | Britain.         | J. F. Stephens. |
| <i>e, f.</i> ♀.           | Britain.         |                 |
| <i>g.</i> ♂.              | Aix-la-Chapelle. | Prof. Förster.  |
| <i>h.</i> ♂.              | Europe.          |                 |
| <i>i, k.</i> ♂.           | Munich.          | H. Buchecker.   |
| <i>l-t.</i> ♂ ♀.          | Munich (?).      | H. Buchecker.   |
| <i>u.</i> ♂.              | Zurich.          | H. Buchecker.   |

62. *Dolerus elongatus*.

*Dolerus elongatus*, *Thoms. Hym. Scand.* i. p. 293 (1871).

*Hab.* Sweden.

63. *Dolerus gibbosus*.

*Dolerus gibbosus*, *Hart. Blattw.* p. 241, n. 34 (1837); *Thoms. Hym. Scand.* i. p. 290 (1871).

*Hab.* Germany.

64. *Dolerus brachygaster*.

*Dolerus brachygaster*, *Hart. Blattw.* p. 242, n. 35 (1837).

*Hab.* Germany.

65. *Dolerus klugii*.

*Dolerus klugii*, *Scholtz, Arb. schles. Ges. vaterl. Cultur*, 1847, p. 110.

*Hab.* Germany.

66. *Dolerus lacteus*.

*Dolerus lacteus*, *Scholtz, Arb. schles. Ges. vaterl. Cultur*, 1847, p. 110.

*Hab.* Germany.

67. *Dolerus ochroneurus*.

*Dolerus ochroneurus*, *Först. Verh. Ver. Rheinl.* xvi. p. 143 (1860).

*Hab.* Aix-la-Chapelle.

68. *Dolerus leucopterus*.

*Dolerus leucopterus*, *Zadd. Blattw.* p. 26 (1859).

*Hab.* Germany.

69. *Dolerus tæniatus*.

*Dolerus tæniatus*, *Zadd. Blattw.* p. 25 (1859).

*Hab.* Germany.

70. *Dolerus vulneratus*.

*Dolerus vulneratus*, *Mocsáry, Tijdschr. Ent.* xxi. p. 199 (1879).

*Hab.* Siberia.

71. *Dolerus lucidus*.

*Dolerus lucidus*, *Freym. Protocol Soc. d'Antr. Mosc.* viii. p. 221 (1870).

*Hab.* Samarcand.

72. *Dolerus rugosus*.

*Dolerus rugosus*, *Freym. Protocol Soc. d'Antr. Mosc.* viii. p. 220 (1870).

*Hab.* Samarcand.

73. *Dolerus mocanna*.

*Dolerus similis*, *Freym. (nec Nort.) Protocol Soc. d'Antr. Mosc.* viii. p. 221 (1870).

*Hab.* Samarcand.

74. *Dolerus japonicus*.

(Plate IX. fig. 7.)

Exp. al. 8 lin., long. corp. 4 lin.

Head black, coarsely punctured, but not hairy; prothorax, frontal lobe, and sides of thorax testaceous; scutellum, metathorax, and first segment of the abdomen black; cenchri and abdomen testaceous. Pectus, except the prothorax and adjoining part of the pleura, black, finely punctured, and clothed with short white hairs; legs black, femora rather broad, and clothed with hair like the pectus; front legs testaceous below the middle of the femora. Abdomen wholly testaceous beneath, except the saw and sheaths, which are black, and set with diverging bristles at the extremity. Wings hyaline, with a smoky-yellowish shade, especially towards the base of the fore wings; nervures and stigma black.

Allied to *D. pratensis* and *D. lateritius*. It was regarded by the late Mr. F. Smith as doubtfully identical with the former.

*Hab.* Japan.

a. ♀. (Type of species.)

Hiogo.

G. Lewis, Esq.

75. *Dolerus cameroni*.

(Plate IX. fig. 11.)

*Dolerus bicolor*, *Cameron (nec Beauv.) Trans. Ent. Soc. Lond.* 1876, p. 469.Exp. al. 1 poll.  $2\frac{1}{2}$  lin., long. corp. 6 lin.

Head, thorax (except the prothorax, the frontal lobe, and the front of the side lobes, which are testaceous), legs, first segment of abdomen above, and saw-sheaths black; abdomen shining testaceous; wings dusky hyaline, very iridescent, with a slight purplish lustre, nervures black; sides of pectus coarsely punctuated, middle smooth and shining; cenchri whitish.

Closely allied to the last species and to the Indian *D. rufocinctus* (*vide* p. 233), the distribution of colours being almost the same in all.

*Hab.* Shanghai.*a.* ♀. (Type.)

Shanghai.

R. Fortune.

76. *Dolerus subfasciatus*.

(Plate IX. fig. 13.)

*Dolerus subfasciatus*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 384.

Exp. al. 11 lin., long. corp. 5 lin.

Black; head and thorax closely punctured; prothorax, face, cheeks, and the whole under surface of the body more or less thickly covered with a greyish pubescence; tegulæ, front tibiæ and tips of femora, the knees of the four hinder legs (very slightly), and the fourth segment of the abdomen above dull reddish; cenchri white. Wings hyaline, with black nervures.

*Hab.* Japan.*a.* ♀. (Type.)

Hiogo.

G. Lewis, Esq.

77. *Dolerus ephippiatus*.

(Plate IX. fig. 10.)

*Dolerus ephippiatus*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 383.

Exp. al. 11 lin., long. corp. 6 lin.

Black; abdomen shining, with a coppery green tinge; thorax (except the tegulæ), scutellum, metathorax, and pectus (except in the middle) ferruginous; cenchri whitish; head, legs, and abdomen with a greyish pubescence. Wings hyaline, rather darker towards the tips; nervures black.

*Hab.* Japan.

*a.* ♀. }  
*b.* ♀. } (Types.)

Hakodadi.  
 Hiogo.

H. Whitely, Esq.  
 G. Lewis, Esq.

78. *Dolerus affinis*.

(Plate IX. fig. 12.)

*Dolerus affinis*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 470.

Exp. al. 8-9 lin., long. corp. 4 lin.

Closely allied to *D. ephippiatus*, but less pilose; wings and antennæ shorter; abdomen stouter, bluish black above, and black below; pectus wholly black, except the anterior angle; thorax with a small black spot in front; head a little more closely punctured; wings a little darker.

*Hab.* China.

|                              |            |                         |                                 |
|------------------------------|------------|-------------------------|---------------------------------|
| <i>a. ♀.</i><br><i>b. ♀.</i> | } (Types.) | Hong Kong.<br>Shanghai. | J. Bowring, Esq.<br>R. Fortune. |
|------------------------------|------------|-------------------------|---------------------------------|

79. *Dolerus coxalis*.*Dolerus coxalis*, *Motsch. Bull. Mosc.* xxxix. p. 182 (1866).*Hab.* Japan.*B. North-American Species.*80. *Dolerus unicolor*.

*Tenthredo unicolor*, *Beauv. Ins. Afr. Amér.* p. 97, pl. ix. fig. 2 (1805).  
*Dolerus unicolor*, *St.-Farg. Mon. Tenth.* p. 125, n. 373 (1823);  
*Nort. Proc. Bost. Soc.* viii. p. 154 (1861); *id. Trans. Amer. Ent.*  
*Soc.* i. p. 234 (1867).

*Hab.* North America.

|   |  |                                 |
|---|--|---------------------------------|
| <i>a. ♂.</i><br><i>b, c. ♂.</i><br><i>d-g. ♂.</i> | New York.<br>Nova Scotia.<br>N. America. | E. Doubleday.<br>Lieut. Redman. |
|---|--|---------------------------------|

81. *Dolerus thoracicus*\*.*Tenthredo thoracica*, *Beauv. Ins. Afr. Amér.* p. 97, pl. ix. fig. 3 (1805).

*Dolerus arvensis*, *Say, Long's Second Exped.* ii. p. 319, n. 2 (1824);  
*Nort. Trans. Amer. Ent. Soc.* i. p. 235 (1867).

*Dosytheus arvensis*, *Nort. Proc. Bost. Soc.* viii. p. 151 (1861).*Hab.* North America.

|   |  |                                 |
|---|--|---------------------------------|
| <i>a, b. ♀.</i><br><i>c. ♀.</i><br><i>d-h. ♀.</i> | Nova Scotia.<br>New York.<br>N. America. | Lieut. Redman.<br>E. Doubleday. |
|---|--|---------------------------------|

82. *Dolerus sericeus*.

*Dolerus sericeus*, *Say, Long's Second Exped.* ii. p. 320, n. 3 (1824);  
*Nort. Proc. Bost. Soc.* viii. p. 151, n. 1 (1861); *id. Trans. Amer.*  
*Ent. Soc.* i. p. 235, n. 3 (1867).

*Hab.* North America.

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\* Probably the female of the preceding species.

|                  |  |               |
|------------------|--|---------------|
| <i>a-d.</i> ♂ ♀. | St. Martin's Falls, Albany River,<br>Hudson's Bay. | Dr. Barnston. |
| <i>e.</i> ♀.     | New York.  | E. Doubleday. |
| <i>f-k.</i> ♂ ♀. | N. America.  |               |

83. *Dolerus collaris*.

*Dolerus collaris*, *Say, West. Quart. Rep.* ii. p. 72 (1823); *Nort. Trans. Amer. Ent. Soc.* i. p. 236, n. 4 (1867).

*Dosytheus collaris*, *Nort. Proc. Bost. Soc.* viii. p. 151, n. 2 (1861).

*Hab.* North America.

|                 |  |                    |
|-----------------|--|--------------------|
| <i>a.</i> ♂.    | St. Martin's Falls, Albany River,<br>Hudson's Bay. | Dr. Barnston.      |
| <i>b, c.</i> ♀. | Lake Winnipeg.                                     | Sir J. Richardson. |
| <i>d-f.</i> ♀.  | N. America.  |                    |

84. *Dolerus aprilis*.

*Dosytheus aprilis*, *Nort. Proc. Bost. Soc.* viii. p. 152, n. 4 (1861).

*Dolerus aprilis*, *Nort. Trans. Amer. Ent. Soc.* i. p. 236, n. 5 (1867).

*Hab.* North America.

|                   |  |                |
|-------------------|--|----------------|
| <i>a-f.</i> ♂ ♀.  | St. Martin's Falls, Albany River,<br>Hudson's Bay. | Dr. Barnston.  |
| <i>g-i.</i> ♂ ♀.  | Nova Scotia.                                       | Lieut. Redman. |
| <i>k, l.</i> ♂ ♀. | New York.  | E. Doubleday.  |
| <i>m, n.</i> ♀.   | Montreal.  | Dr. Barnston.  |

85. *Dolerus tibialis*.

*Dolerus tibialis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 52 (1880).

*Hab.* Washington Territory.

86. *Dolerus apricus*.

*Dosytheus apricus*, *Nort. Proc. Bost. Soc.* viii. p. 152, n. 3 (1861).

*Dolerus apricus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 236, n. 6 (1867).

*Hab.* North America.

87. *Dolerus albifrons*.

*Dosytheus apricus*, var. *albifrons*, *Nort. Proc. Bost. Soc.* viii. p. 152, n. 3 (1861).

*Dolerus albifrons*, *Nort. Trans. Amer. Ent. Soc.* i. p. 237, n. 7 (1867).

*Hab.* United States.

88. *Dolerus abdominalis*.

*Dosytheus abdominalis*, *Nort. Proc. Bost. Soc.* viii. p. 153, n. 8 (1861).

*Dolerus abdominalis*, *Nort. Trans. Amer. Ent. Soc.* i. p. 237, n. 8 (1867).

*Hab.* United States.

89. *Dolerus similis*.

*Dosytheus similis*, *Nort. Proc. Bost. Soc.* viii. p. 153, n. 5 (1861).

*Dolerus similis*, *Nort. Trans. Amer. Ent. Soc.* i. p. 238, n. 9 (1867).

*Dolerus similis*, var. *yukonensis*, *Nort. Trans. Amer. Ent. Soc.* iv. p. 82 (1872).

*Hab.* United States.

90. *Dolerus distinctus*.

*Dolerus distinctus*, *Nort. Trans. Amer. Ent. Soc.* iv. p. 82 (1872).

*Hab.* San Francisco.

91. *Dolerus maculicollis*.

*Dosytheus maculicollis*, *Nort. Proc. Bost. Soc.* viii. p. 153, n. 6 (1861).

*Dolerus maculicollis*, *Nort. Trans. Amer. Ent. Soc.* i. p. 238, n. 10 (1867).

*Hab.* Brooklyn.

92. *Dolerus bicolor*.

*Tenthredo bicolor*, *Beauv. Ins. Afr. Amér.* p. 96, pl. ix. fig. 1 (1805).

*Dolerus bicolor*, *St.-Farg. Mon. Tenth.* p. 122, n. 360 (1823); *Nort.*

*Trans. Amer. Ent. Soc.* i. p. 238, n. 11 (1867).

*Dosytheus bicolor*, *Nort. Proc. Bost. Soc.* viii. p. 153, n. 7 (1861).

*Hab.* North America.

a. ♀.

N. America.

93. *Dolerus versus*.

*Dolerus versa*, *Nort. Trans. Amer. Ent. Soc.* i. p. 239 (1867).

*Hab.* United States.

94. *Dolerus tejonensis*.

*Dosytheus tejonensis*, *Nort. Proc. Bost. Soc.* viii. p. 154 (1861).

*Dolerus tejonensis*, *Nort. Trans. Amer. Ent. Soc.* i. p. 239 (1867).

*Hab.* California.

a, b. ♀.

California.

95. *Dolerus coloradensis*.

*Dolerus coloradensis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 11 (1880).

*Hab.* Colorado.

96. *Dolerus cocciniferus*.

*Dolerus coccinifera*, *Nort. Trans. Amer. Ent. Soc.* iv. p. 82 (1867).

*Hab.* California.

*C. Indian Species.*97. *Dolerus rufocinctus*.

(Plate IX. fig. 9.)

*Dolerus rufocinctus*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 469.

Exp. al. 9–11 lin., long. corp. 4–5 lin.

Very similar to *D. japonicus* (*vide* p. 228), but of a more purplish shining black. The sides of the pectus are more coarsely punctured, and the base of the costa is yellow. Head densely covered with long white hairs; all the legs black, the front tarsi reddish on the under surface; first segment of the abdomen and the middle of the second above, and from the hinder edge of the sixth segment to the extremity, black, both above and below: all the other characters as in *D. japonicus*.

*Hab.* N. India.*a, b.* ♀. (Types.)

N. India.

Capt. Boyes.

88. *PELMATOPUS*.*Pelmatopus*, *Hart. Blattw.* p. 244 (1837).1. *Pelmatopus minutus*.*Dolerus minutus*, *Hart. Blattw.* p. 244 (1837).*Hab.* Germany.Subfamily XI. *ATHALIINÆ*.89. *ATHALIA*.*Athalia*, *Leach, Zool. Misc.* iii. p. 126 (1817); *Hart. Blattw.* p. 283 (1837).1. *Athalia glabricollis*.*Athalia glabricollis*, *Thoms. Hym. Scand.* i. p. 268 (1871).*Hab.* Europe.

*a-f.* ♂ ♀.  
*g, h.* ♀.

Munich.  
 Zurich.

H. Buchecker.  
 H. Buchecker.

2. *Athalia spinarum*.*Tenthredo spinarum*, *Fabr. Ent. Syst.* ii. p. 109, n. 20 (1793).*Athalia spinarum*, *Costa, Faun. Nap., Tentr.* p. 43, pl. lxxvii. fig. 1 (1859); *Thoms. Hym. Scand.* i. p. 172 (1871).*Tenthredo* (*Allantus*) *spinarum*, *Klug, Berl. Mag.* vii. p. 127 (1816).*Tenthredo colibri*, *Christ, Naturg. Ins.* p. 434 (1791).*Tenthredo-centifoliæ*, *Panz. Faun. Germ.* Heft 49, pl. xviii. (1798).? *Tenthredo annulata*, *Gmel. Syst. Nat.* i. pt. v. p. 2665, n. 105 (1789).*Hab.* Europe; Asia.

|                     |             |                    |
|---------------------|-------------|--------------------|
| <i>a-k.</i> ♂ ♀.    | Britain.    | J. F. Stephens.    |
| <i>l-s.</i> ♂ ♀.    | Germany.    | J. F. Ruthe.       |
| <i>t, u.</i> ♀.     | Bohemia.    | Prof. N. M. Kheil. |
| <i>v.</i> ♂.        | Europe.     |                    |
| <i>w-aa.</i> ♂ ♀.   | Munich.     | H. Buchecker.      |
| <i>bb.</i> ♀.       | Swabia.     | H. Buchecker.      |
| <i>cc, dd.</i> ♂ ♀. | Zurich.     | H. Buchecker.      |
| <i>ee, ff.</i> ♀.   | Shanghai *. | R. Fortune.        |

### 3. *Athalia rosæ.*

*Tenthredo rosæ*, *Linn. Syst. Nat.* i. p. 557, n. 21 (1758); *id. Faun. Suec.* p. 393 (1761).

*Tenthredo* (*Allantus*) *rosæ*, *Klug, Berl. Mag.* vii. p. 128, n. 2 (1816).

*Hylotoma annulata*, *Fall. Vet.-Akad. Handl.* xxviii. p. 205, n. 18 (1807).

*Phyllotoma annulata*, *Fall. Mon. Tenth.* p. 28, n. 3 (1829).

*Athalia ancilla*, cordata, lineolata, suessionis et bicolor, *St.-Farg. Mon. Tenth.* pp. 22, 23 (1823).

*Tenthredo liberta*, *Klug, Germar's Reise nach Dalmatien*, p. 257, n. 333 (1817).

*Athalia rosæ*, *Costa, Faun. Nap., Tentr.* p. 44 (1859); *Thoms. Hym. Scand.* i. p. 173 (1871).

*Athalia cordata*, *Costa, Faun. Nap., Tentr.* p. 45, pl. lxvii. fig. 2 (1859).

*Hab.* Europe, North Asia, and Africa.

|   |               |                 |
|---|---------------|-----------------|
| <i>a-e.</i> ♂ ♀. (As <i>A. ancilla</i> .)     | Britain.      | J. F. Stephens. |
| <i>f.</i> ♂. } (As <i>A. basalis</i> .)       | Britain.      | J. F. Stephens. |
| <i>g.</i> ♂. }                                | Britain.      |                 |
| <i>h-m.</i> ♂. (As <i>A. annulata</i> .)      | Britain.      | J. F. Stephens. |
| <i>n-v.</i> ♂ ♀. (As <i>A. cordata</i> .)     | Britain.      | J. F. Stephens. |
| <i>w.</i> ♀. }                                | Britain.      | T. C. Heysham.  |
| <i>x-z.</i> ♂ ♀. } (As <i>A. rosæ</i> .)      | Britain.      | J. F. Stephens. |
| <i>aa-cc.</i> ♀. }                            | Britain.      |                 |
| <i>dd-gg.</i> ♂ ♀. (As <i>A. lineolata</i> .) | Britain.      | J. F. Stephens. |
| <i>hh-kk.</i> ♀. (As <i>A. apicalis</i> .)    | Britain.      | J. F. Stephens. |
| <i>ll-pp.</i> ♂ ♀.                            | Germany.      | J. F. Ruthe.    |
| <i>qq-ss.</i> ♂ ♀.                            | Europe.       |                 |
| <i>tt-zz.</i> ♂ ♀.                            | Munich.       | H. Buchecker.   |
| <i>aaa, bbb.</i> ♂.                           | Zurich.       | H. Buchecker.   |
| <i>ccc.</i> ♂.                                | Sierra Leone. |                 |
| <i>ddd.</i> ♀.                                | Sierra Leone. | J. Foxcroft.    |

### 4. *Athalia lugens.*

*Tenthredo* (*Allantus*) *lugens*, *Klug, Berl. Mag.* vii. p. 129, n. 3 (1816).

*Athalia lugens*, *Costa, Faun. Nap., Tentr.* p. 45, pl. lxvii. fig. 3 (1859); *Thoms. Hym. Scand.* i. p. 174 (1871).

*Hab.* Europe.

|                 |          |                 |
|-----------------|----------|-----------------|
| <i>a, b.</i> ♀. | Britain. | J. F. Stephens. |
| <i>c, d.</i> ♀. | Zurich.  | H. Buchecker.   |

\* The specimens from Shanghai have less black on the thorax than European examples; but the latter vary among themselves.



5. *Athalia scutellariæ*.

*Athalia scutellariæ*, *Cam. Ent. M. Mag.* xvii. p. 66 (1880); *André, Spec. Hym.* i. p. 581 (1881).

*Hab.* Gloucester.

6. *Athalia paveli*.

*Athalia paveli*, *Mócs. Term. füzetek*, iii. p. 117, note (1879).

*Hab.* Brussa.

7. *Athalia maculata*.

*Athalia maculata*, *Mócs. Term. füzetek*, iii. p. 117 (1879).

*Hab.* Hungary.

8. *Athalia rufoscutellata*.

*Athalia rufoscutellata*, *Mócs. Term. füzetek*, iii. p. 116 (1879).

*Hab.* Hungary.

9. *Athalia annulata*.

*Tenthredo annulata*, *Fabr. Mant. Ins.* i. p. 253, n. 14 (1787); *Klug, Berl. Mag.* vii. p. 130, n. 4 (1816).

*Athalia annulata*, *Thoms. Hym. Scand.* i. p. 174 (1871).

*Hab.* Europe.

*a-m.* ♂ ♀.  
*n-p.* ♀.  
*q.* ♂.

Germany.  
Munich.  
Zurich.

J. F. Ruthe.  
H. Buchecker.  
H. Buchecker.

10. *Athalia blanchardi*.

*Athalia blanchardi*, *Brullé, Hym.* iv. p. 663, pl. xlv. fig. 6 (1846).

*Hab.* Algeria.

11. *Athalia japonica*.

*Athalia japonica*, *Klug, Berl. Mag.* vii. p. 131, n. 6 (1816).

*Hab.* Japan.

*a.* ♀.

Tokio.

M. Fenton, Esq.

12. *Athalia proxima*.

(Plate IX. fig. 14.)

*Tenthredo (Allantus) proxima*, *Klug, Berl. Mag.* vii. p. 130, n. 5 (1816).

*Athalia tibialis*, *Cam. Trans. Ent. Soc. Lond.* 1876, p. 460.

*Exp.* al. 6-7 lin., long. corp. 3 lin.

Luteous, shining; head, hinder half of thorax above, tarsi, hind tibiae, upperside of the other tibiae, and sheaths of saws black; palpi

pale testaceous ; lower edge of clypeus (occasionally) white. Wings smoky hyaline, with black nervures ; tegulæ luteous.

Male with the two basal joints of antennæ beneath and apex of clypeus, with the labrum, white ; clypeus very hairy, spurs pale.

Klug described this species as from Baltimore, but no other authority for the occurrence of an *Athalia* in America exists ; and, after a careful examination of his description, I have no doubt that he had this common Indian species before him.

*Hab.* India.

*a-g.* ♂ ♀. (Types of *A. tibialis*.) Barrackpore ? Sir J. Hearsey.

### 13. *Athalia himantopus*.

*Athalia himantopus*, *Klug, Jahrb. d. Insect.* i. p. 253, n. 7 (1834).

*Hab.* South Africa.

*a.* ♀. Natal. Herr Guenzius.

### 14. *Athalia vollenhoveni*.

*Athalia vollenhoveni*, *Grib. Ann. Mus. Genov.* xiv. p. 346 (1879), xvi. p. 266 (1881).

*Hab.* Shoa.

### 15. *Athalia scioensis*.

*Athalia scioensis*, *Grib. Ann. Mus. Genov.* xiv. p. 347 (1879), xvi. p. 267 (1881).

*Hab.* Shoa.

### 16. *Athalia fumosa*.

*Athalia fumosa*, *Grib. Ann. Mus. Genov.* xiv. p. 347 (1879), xvi. p. 267 (1881).

*Hab.* Shoa.

### 17. *Athalia richardi*.

*Athalia richardi*, *St.-Farg. Mon. Tenth.* p. 23, n. 67 (1823).

Locality unknown.

## Subfamily XII. TENTHREDININÆ.

### 90. SCIAPTERYX.

*Sciapteryx*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 56 (1835).

*Sciapteryx*, *Cam. Proc. N. H. Soc. Glasg.* iii. App. p. 16 (1878).

*Eniscia*, *Thoms. Op. Ent.* ii. p. 299 (1870) ; *id. Hym. Scand.* i. p. 261 (1871).

1. *Sciapteryx costalis*.

*Tenthredo costalis*, *Fabr. Syst. Ent.* p. 322, n. 25 (1775).

*Tenthredo fulvivenia*, *Schrank, Enum. Ins. Austr.* p. 338, n. 682 (1781).

*Tenthredo* (*Allantus*) *costalis*, *Klug, Berl. Mag.* viii. p. 78, n. 65 (1818).

*Hab.* Central Europe.

*a-d.* ♂ ♀.

Britain.

J. F. Stephens.

*e.* ♂.

Britain.

2. *Sciapteryx consobrina*.

*Tenthredo* (*Allantus*) *consobrina*, *Klug, Berl. Mag.* viii. p. 79, n. 66 (1818).

*Eniscia consobrina*, *Thoms. Opusc. Ent.* ii. p. 299, n. 1 (1870); *id.*

*Hym. Scand.* i. p. 262 (1871).

*Hab.* Europe.

*a-c.* ♂ ♀.

Germany.

J. F. Ruthe.

*d.* ♂.

Germany.

Dr. Klug.

3. *Sciapteryx arctica*.

*Eniscia arctica*, *Thoms. Op. Ent.* ii. p. 300 (1870); *id. Hym. Scand.* i. p. 263 (1871).

*Hab.* Lapland.

4. *Sciapteryx levantina*.

*Sciapteryx levantina*, *André, Spec. Hym.* i. p. 409 (1881).

*Hab.* Syria.

5. *Sciapteryx obesa*.

*Allantus obesus*, *Nort. Bost. Journ.* vii. p. 260 (1860); *id. Trans. Amer. Ent. Soc.* i. p. 264 (1867).

*Hab.* Massachusetts.

6. *Sciapteryx rotunda*.

*Sciapteryx rotundus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 242 (1867).

*Hab.* Connecticut.

7. *Sciapteryx punctum*.

*Sciapteryx punctum*, *Provancher, Nat. Canad.* x. p. 72 (1878).

*Hab.* Canada.

## 91. ALLANTUS\*.

*Allantus*, *Jurine, Hym.* p. 54 (1807); *Leach, Zool. Misc.* iii. p. 127 (1817); *Hart. Blattw.* p. 285 (1837).

\* Although this genus, as restricted by Leach, does not include the species to which Panzer first applied the name, it is, perhaps, unnecessary to alter its ordinary application, since Panzer did not characterize his genus.

A. *Europæo-Asiatic and Mediterranean Species, including Northern and Western Asia and North Africa.*

1. *Allantus annulatus.*

*Tenthredo* (*Allantus*) *annulata*, *Klug, Berl. Mag.* viii. p. 131, n. 101 (1818).

*Hab.* Hungary; South Russia.

a. ♀.

2. *Allantus meridianus.*

*Tenthredo meridiana*, *St.-Farg. Mon. Tenth.* p. 88, n. 254 (1823); *id. Faun. Franç.* p. 31, n. 38, pl. v. fig. 1.

*Hab.* Montpellier.

3. *Allantus scrophulariæ.*

*Tenthredo scrophulariæ*, *Linn. Syst. Nat.* i. p. 556, n. 12 (1758); *id. Faun. Suec.* p. 390 (1761); *Panz. Faun. Germ.* Heft 100, pl. x. (1809).

*Tenthredo* (*Allantus*) *scrophulariæ*, *Klug, Berl. Mag.* ii. p. 131, n. 102 (1818).

*Tenthredo rustica*, *Schrank, Fauna Boica*, ii. pt. 2, p. 235, n. 1999 (1802).

*Allantus scrophulariæ*, *Costa, Faun. Nap., Tentr.* p. 62, pl. lxxi. bis. fig. 1 (1859); *Vollenh. Tijdschr. Ent.* iii. p. 99, pl. vii. (1860); *Thoms. Faun. Scand.* i. p. 257 (1871).

*Var. Allantus annulatus*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 58 (1835).

*Hab.* Europe; Siberia.

|                                  |                               |                   |
|----------------------------------|-------------------------------|-------------------|
| a-h. ♂ ♀.                        | Britain.                      | J. F. Stephens.   |
| i. ♂. (As <i>A. annulatus</i> .) | Britain.                      | J. F. Stephens.   |
| k. ♂.                            | Britain.                      |                   |
| l-n. ♂ ♀.                        | Germany.                      | J. F. Ruthe.      |
| o, p. ♂ ♀.                       | Italy.                        | W. E. Leach.      |
| q. ♀.                            | Portugal.                     | T. V. Wollaston.  |
| r. ♂.                            | Basses-Pyrénées.              | Rev. A. E. Eaton. |
| s-x. ♂ ♀.                        | Munich.                       | H. Buchecker.     |
| y. ♀.                            | Zurich.                       | H. Buchecker.     |
| z, aa. ♂.                        | Uto Mountain,<br>near Zurich. | H. Buchecker.     |

4. *Allantus virgatus.*

*Tenthredo virgata*, *Fourcr. Ent. Par.* ii. p. 367, n. 12 (1785).

*Tenthredo bicincta*, *Fabr. (nec Linn.) Ent. Syst. Suppl.* p. 217 (1798).

*Tenthredo* (*Allantus*) *cingulum*, *Klug, Berl. Mag.* viii. p. 135, n. 105 (1818).

*Tenthredo captiva*, *St.-Farg. Mon. Tenth.* p. 88, n. 256 (1823); *id. Faun. Franç.* p. 32, n. 40, pl. v. fig. 2.

*Allantus quinquecinctus*, *Gimmerth. Bull. Mosc.* vii. p. 124 (1834).

*Allantus apicimacula*, *Costa, Faun. Nap., Tentr.* p. 67, pl. lxxi. fig. 4 (1859).

*Allantus 4-cinctus*, *Thoms. Opusc. Ent.* ii. p. 297, n. 3 (1870); *id. Hym. Scand.* i. p. 258 (1871).

*Hab.* Europe.

|  |                                  |                 |
|--|----------------------------------|-----------------|
| <i>a-f.</i> ♂ ♀. (As <i>A. zonula</i> .) | Britain.                         | J. F. Stephens. |
| <i>g, h.</i> ♀.                          | Paris.                           |                 |
| <i>i.</i> ♀.                             | Germany.                         | Dr. Klug.       |
| <i>k-v.</i> ♂ ♀.                         | Munich.                          | H. Buchecker.   |
| <i>w-aa.</i> ♂ ♀.                        | Zurich.                          | H. Buchecker.   |
| <i>bb-ff.</i> ♂ ♀.                       | Lägern Mountain,<br>near Zurich. | H. Buchecker.   |
| <i>gg.</i> ♂.                            | Europe.                          |                 |

### 5. *Allantus propinquus*.

*Tenthredo* (*Allantus*) *propinqua*, *Klug, Berl. Mag.* viii. p. 132, n. 103 (1818).

*Hab.* Carinthia.

### 6. *Allantus luteocinctus*.

*Tenthredo luteocincta*, *Eversm. Bull. Mosc.* 1847, pt. i. p. 35.

*Hab.* Astrachan.

### 7. *Allantus caspius*.

*Allantus caspius*, *André, Spec. Hym.* i. p. 400 (1881).

*Hab.* Astrachan.

### 8. *Allantus multicinctus*.

*Allantus multicinctus*, *Rudow, Stett. ent. Zeit.* xxxiii. p. 91 (1872).

*Hab.* Harz.

### 9. *Allantus marginellus*.

*Tenthredo marginella*, *Fabr. Ent. Syst.* ii. p. 117, n. 50 (1793).

*Tenthredo* (*Allantus*) *marginella*, *Klug, Berl. Mag.* viii. p. 133, n. 104 (1818).

*Allantus marginellus*, *Costa, Faun. Nap., Tentr.* p. 64, pl. lxxi. fig. 3 (1859).

*Tenthredo sexannulata*, *Schrank, Fauna Boica*, p. 236, n. 2002 (1802).

*Tenthredo succincta*, *St.-Farg. Mon. Tenth.* p. 93, n. 266 (1823); *id. Faun. Franç.* p. 37, n. 48, pl. v. fig. 5.

*Tenthredo viennensis* (*nec Panz.*) et *4-cincta*, *Fall. Vet.-Akad. Handl.* xxix. pp. 49, 50 (1808).

*Hab.* Europe.

|                   |                                  |                 |
|-------------------|----------------------------------|-----------------|
| <i>a-e.</i> ♂ ♀.  | Britain.                         | J. F. Stephens. |
| <i>f, g.</i> ♂ ♀. | Britain.                         |                 |
| <i>h-w.</i> ♂ ♀.  | Germany.                         | J. F. Ruthe.    |
| <i>x, y.</i> ♀.   | Polish Ukraine.                  | Dr. Dowler.     |
| <i>z-ff.</i> ♂ ♀. | Munich.                          | H. Buchecker.   |
| <i>gg, hh.</i> ♀. | Lägern Mountain,<br>near Zurich. | H. Buchecker.   |

10. *Allantus confusus.*

*Tenthredo confusa*, *St.-Farg. Mon. Tenth.* p. 91, n. 262 (1823).

*Hab.* France.

11. *Allantus decipiens.*

*Allantus decipiens*, *Först. Stett. ent. Zeit.* v. p. 288 (1844).

*Hab.* Aix-la-Chapelle.

12. *Allantus omissus.*

*Allantus omissus*, *Först. Stett. ent. Zeit.* v. p. 289 (1849).

*Hab.* Aix-la-Chapelle.

13. *Allantus zona.*

*Tenthredo (Allantus) zona*, *Klug, Berl. Mag.* p. 136, no. 106 (1818).

*Allantus zona*, *Costa, Faun. Nap., Tentr.* p. 66, pl. lxxi. fig. 5 (1859);

*Thoms. Hym. Scand.* i. p. 260 (1871).

*Hab.* Europe.

|              |                               |               |
|--------------|-------------------------------|---------------|
| <i>a.</i> ♀. | Germany.                      | Dr. Klug.     |
| <i>b.</i> ♀. | Lägern Mountain, near Zurich. | H. Buchecker. |
| <i>c.</i> ♂. | Munich (?).                   | H. Buchecker. |

14. *Allantus monozona.*

*Allantus monozonus*, *Kriechb. Verh. z.-b. Wien*, xix. p. 593 (1869).

*Hab.* Crimea.

15. *Allantus unifasciatus.*

*Allantus unifasciatus*, *Mocs. Term. füzetek*, i. p. 87 (1877); *André, Spec. Hym.* i. p. 371 (1881).

*Hab.* Hungary.

16. *Allantus pubescens.*

*Allantus pubescens*, *André, Spec. Hym.* i. p. 383 (1881).

*Hab.* Caucasus.

17. *Allantus sabariensis*.

*Allantus sabariensis*, *Mocs. Term. füzetek*, iv. p. 269 (1880); *André, Spec. Hym.* i. p. 383 (1881).

*Hab.* Hungary.

18. *Allantus semifasciatus*.

*Allantus semifasciatus*, *Rudow, Stett. ent. Zeit.* xxxiii. p. 140 (1872).

*Hab.* Harz, Westphalia.

19. *Allantus fasciatus*.

*Tenthredo fasciata*, *Scop. Ent. Carn.* p. 278, n. 727 (1763).

*Tenthredo bifasciata*, *Fourcr. Ent. Par.* ii. p. 366, n. 9 (1785).

*Tenthredo trifasciata*, *Fourcr. l. c.* n. 10 (1785).

*Tenthredo* (*Allantus*) *zonula*, *Klug, Berl. Mag.* viii. p. 137, n. 107 (1818).

*Tenthredo luteiventris*, *St.-Farg. Mon. Tenth.* p. 89, n. 257 (1823).

*Allantus zonula*, *Costa, Faun. Nap., Tentr.* p. 67, pl. lxxi. fig. 6 (1859); *Thoms. Hym. Scand.* i. p. 261 (1871).

*Hab.* Europe.

|                                 |                                  |                 |
|---------------------------------|----------------------------------|-----------------|
| a. ♀. (As <i>A. cingulum</i> .) | Britain.                         | J. F. Stephens. |
| b. ♀.                           | Germany.                         | Dr. Klug.       |
| c-e. ♂ ♀.                       | Europe.                          |                 |
| f-g. ♂ ♀.                       | Munich.                          | H. Buchecker.   |
| h, i. ♂ ♀.                      | Zurich.                          | H. Buchecker.   |
| k. ♂.                           | Lägern Mountain,<br>near Zurich. | H. Buchecker.   |

20. *Allantus frauenfeldii*.

*Tenthredo* (*Allantus*) *frauenfeldii*, *Giraud, Verh. z.-b. Wien*, vii. p. 181 (1857).

*Hab.* Carniola.

21. *Allantus abliventris*.

*Allantus albiventris*, *Mocs. Term. füzetek*, iv. p. 271 (1880); *André, Spec. Hym.* i. p. 379 (1881).

*Hab.* Caucasus.

22. *Allantus fulviventris*.

*Allantus fulviventris*, *Mocs. Term. füzetek*, iv. p. 269 (1880); *André, Spec. Hym.* i. p. 381 (1881).

*Hab.* Malaga.

23. *Allantus ornatus*.

*Allantus ornatus*, *André, Spec. Hym.* i. p. 382 (1881).

*Hab.* Caucasus.

24. *Allantus tricinctus*.

*Tenthredo tricincta*, *Fabr. Syst. Piez.* p. 30, n. 5 (1804).

*Tenthredo* (*Allantus*) *tricincta*, *Klug, Berl. Mag.* viii. p. 138, n. 108 (1818).

*Tenthredo rustica*, *Fourcr. (nec Linn.) Ent. Par.* ii. p. 367, n. 11 (1785).

*Allantus tricinctus*, *Vollenh. Tijdschr. Ent.* i. p. 171, pl. ix. (1858); *Thoms. Hym. Scand.* i. p. 258 (1871).

*Tenthredo vespiformis*, *St.-Farg. Mon. Tenth.* p. 89, n. 258 (1823).

*Hab.* Europe; Northern Asia.

|                   |                               |                 |
|-------------------|-------------------------------|-----------------|
| <i>a-f.</i> ♂ ♀.  | Britain.                      | J. F. Stephens. |
| <i>g, h.</i> ♂ ♀. | Britain.                      |                 |
| <i>i.</i> ♀.      | Paris.                        |                 |
| <i>k, l.</i> ♀.   | Germany.                      | J. F. Ruthe.    |
| <i>m-u.</i> ♂ ♀.  | Munich.                       | H. Buchecker.   |
| <i>v-dd.</i> ♂ ♀. | Zurich.                       | H. Buchecker.   |
| <i>ee, ff.</i> ♀. | Lägern Mountain, near Zurich. | H. Buchecker.   |
| <i>gg.</i> ♀.     | Grisons.                      | H. Buchecker.   |
| <i>hh, ii.</i> ♀. | Europe.                       |                 |
| <i>kk.</i> ♀.     | Amoor.                        |                 |

25. *Allantus schæfferi*.

*Tenthredo* (*Allantus*) *schæfferi*, *Klug, Berl. Mag.* viii. p. 139, n. 109 (1818).

*Allantus schæfferi*, *Costa, Faun. Nap., Tentr.* p. 63, pl. lxxi. figs. 1, 1' (1859).

*Tenthredo bella*, *St.-Farg. Mon. Tenth.* p. 73, n. 221 (1823); *id. Faun. Franç.* p. 18, n. 5, pl. iii. fig. 3.

*Allantus costalis*, *Costa, Ric. Entom. Parten.* p. 17, n. 26 (1858).

*Hab.* Europe.

|                 |          |               |
|-----------------|----------|---------------|
| <i>a.</i> ♀.    | Germany. | Dr. Klug.     |
| <i>b, c.</i> ♀. | Zurich.  | H. Buchecker. |

26. *Allantus uralensis*.

*Allantus uralensis*, *André, Spec. Hym.* i. p. 405 (1881).

*Hab.* Ural.

27. *Allantus frivaldskyi*.

*Allantus frivaldskyi*, *Mocs. Term. füzetek*, iii. p. 118 (1879); *André, Spec. Hym.* i. p. 405 (1881).

*Hab.* Hungary.



28. *Allantus arcuatus*.

*Tenthredo arcuata*, *Forst. Nov. Spec. Ins.* p. 79 (1771).

*Tenthredo marginella*, *Panz. Faun. Germ.* Heft 64, pl. vii. (1799).

*Tenthredo* (*Allantus*) *notha*, *Klug, Berl. Mag.* viii. p. 140, n. 110 (1818).

*Allantus nothus*, *Thoms. Hym. Scand.* i. p. 260 (1871).

*Hab.* Europe.

|                    |                               |                 |
|--------------------|-------------------------------|-----------------|
| <i>a-u.</i> ♂ ♀.   | Britain.                      | J. F. Stephens. |
| <i>v-z.</i> ♂ ♀.   | Britain.                      |                 |
| <i>aa-tt.</i> ♂ ♀. | Munich.                       | H. Buchecker.   |
| <i>uu.</i> ♀.      | Suabia.                       | H. Buchecker.   |
| <i>vv-zz.</i> ♂ ♀. | Zurich.                       | H. Buchecker.   |
| <i>aaa.</i> ♂.     | Lägern Mountain, near Zurich. | H. Buchecker.   |
| <i>bbb.</i> ♂.     | Uto Mountain, near Zurich.    | H. Buchecker.   |

29. *Allantus hispanicus*.

*Allantus hispanicus*, *André, Spec. Hym.* i. p. 378 (1881).

*Hab.* Spain.

30. *Allantus caucasicus*.

*Allantus caucasicus*, *Mocs. Term. füzetek*, iv. p. 271 (1880); *André, Spec. Hym.* i. p. 389 (1881).

*Hab.* Caucasus.

31. *Allantus varicarpus*.

*Allantus varicarpus*, *André, Spec. Hym.* i. p. 378 (1881).

*Hab.* Spain.

32. *Allantus sulphuripes*.

*Allantus sulphuripes*, *Kriechb. Verh. z.-b. Wien*, xix. p. 587 (1869).

*Hab.* Grinzing.

33. *Allantus orientalis*.

*Allantus orientalis*, *Kriechb. Verh. z.-b. Wien*, xix. p. 592 (1869).

*Hab.* Greece, Brussa.

34. *Allantus flavipes*.

*Tenthredo flavipes*, *Fourcr. Ent. Par.* ii. p. 372, n. 26 (1785).

*Tenthredo* (*Allantus*) *dispar*, *Klug, Berl. Mag.* viii. p. 141, n. 111 (1818).

*Hab.* Europe.

|                  |            |                 |
|------------------|------------|-----------------|
| <i>a-h.</i> ♂ ♀. | Britain.   | J. F. Stephens. |
| <i>i.</i> ♀.     | Britain.   | W. E. Shuckard. |
| <i>k-m.</i> ♂ ♀. | Battersea. | F. Smith, Esq.  |
| <i>n.</i> ♀.     | Britain.   |                 |

35. *Allantus tenulus*.

*Tenthredo tenula*, Scop. *Ent. Carn.* p. 277 (1763).

*Tenthredo rossii*, Panz. *Faun. Germ.* Heft 91, pl. xv. (1805).

*Tenthredo zonata*, Fallén, *Vet.-Akad. Handl.* xxix. p. 51 (1808).

*Tenthredo* (*Allantus*) *bifasciata*, Klug, *Berl. Mag.* viii. p. 141, n. 112 (1818).

*Allantus 2-fasciatus*, Thoms. *Hym. Scand.* i. p. 261 (1871).

*Hab.* Europe.

|                  |                               |               |
|------------------|-------------------------------|---------------|
| <i>a, b.</i> ♀.  | Britain.                      |               |
| <i>c.</i> ♀.     | Switzerland.                  |               |
| <i>d-l.</i> ♂ ♀. | Europe.                       |               |
| <i>m-u.</i> ♂ ♀. | Zurich.                       | H. Buchecker. |
| <i>v.</i> ♀.     | Lägern Mountain, near Zurich. | H. Buchecker. |

36. *Allantus sareptanus*.

*Tenthredo sareptana*, Eversm. *Bull. Mosc.* xx. p. 11 (1847).

*Hab.* Sarepta, Caucasus.

37. *Allantus violaceus*.

*Allantus violaceus*, André, *Spec. Hym.* i. p. 373 (1881).

*Hab.* South Russia.

38. *Allantus obesus*.

*Allantus obesus*, Mocs. *Term. füzetek*, iv. p. 271 (1880); André, *Spec. Hym.* i. p. 373 (1881).

*Hab.* Bulgaria.

39. *Allantus semirufus*.

*Allantus semirufus*, André, *Spec. Hym.* i. p. 375 (1881).

*Hab.* Spain.

40. *Allantus vidua*.

*Tenthredo vidua*, Rossi, *Faun. Etr.* ii. p. 26 (1790).

*Tenthredo* (*Allantus*) *vidua*, Klug, *Berl. Mag.* viii. p. 142, n. 113 (1818).

*Allantus viduus*, Costa, *Faun. Nap., Tentr.* p. 69, pl. lxxi. bis, figs. 3 & 4 (1859).

*Allantus rossii*, Jurine, *Hym.* pl. v. gen. 3 (1807).

*Hab.* Europe.

|                  |          |               |
|------------------|----------|---------------|
| <i>a.</i> ♂.     | Hungary. | H. Buchecker. |
| <i>b.</i> ♂.     | Albania. |               |
| <i>c-f.</i> ♂ ♀. | Europe.  |               |

41. *Allantus costatus*.

*Tenthredo* (*Allantus*) *costata*, *Klug, Berl. Mag.* viii. p. 142, n. 114 (1818).

*Hab.* Eastern Europe\*.

a. ♀.

42. *Allantus koehleri*.

*Tenthredo* (*Allantus*) *koehleri*, *Klug, Berl. Mag.* viii. p. 143, n. 115 (1818).

*Allantus koehleri*, *Costa, Faun. Nap., Tentr.* p. 68, pl. lxxi. bis, fig. 2 (1859).

*Hab.* Silesia, Naples.

43. *Allantus heraclei*.

*Allantus heraclei*, *Rudow, Stett. ent. Zeit.* xxxiii. p. 90 (1872).

*Hab.* Harz.

44. *Allantus xanthorius*.

*Allantus xanthorius* et var. *amasiensis*, *Kriechb. Verh. z.-b. Wien*, xix. pp. 591 & 592 (1869).

*Hab.* Bulgaria, Amasia.

45. *Allantus dahlii*.

*Tenthredo* (*Allantus*) *dahlii*, *Klug, Berl. Mag.* viii. p. 143, n. 116 (1818).

*Hab.* Eastern Europe.

a. ♀.

Albania.

46. *Allantus dealbata*.

*Tenthredo dealbata*, *Schrank, Enum. Ins. Austr.* p. 334, n. 671 (1781).

*Hab.* Austria.

47. *Allantus limbalis*.

*Tenthredo limbalis*, *Spin. Ann. Soc. Ent. Fr.* (2) i. p. 115 (1843).

*Hab.* Spain.

48. *Allantus xanthopus*.

*Tenthredo xanthopus*, *Spin. Ann. Soc. Ent. Fr.* (2) i. p. 114 (1843).

*Hab.* Spain.

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\* The specimen in the British Museum differs a little from Klug's description, having four yellow spots on each side of the abdomen, instead of three; the first of which, on segment 3, is extended into a band, narrowed in the middle, on the back. The specimen bears the name of *faustus*, which is apparently unpublished.

49. *Allantus rufocingulatus*.

*Allantus rufocingulatus*, *Tischb. Stett. ent. Zeit.* xiii. p. 108 (1852).

*Hab.* Hungary.

50. *Allantus bæticus*.

*Tenthredo bætica*, *Spin. Ann. Soc. Ent. Fr.* (2) i. p. 114 (1843).

*Hab.* Spain.

51. *Allantus collaris*.

*Allantus collaris*, *Dietr. Mitth. schweiz. ent. Ges.* ii. p. 354 (1868)

*Hab.* Zurich.

52. *Allantus trivittatus*.

*Allantus trivittatus*, *André, Spec. Hym.* i. p. 392 (1881).

*Hab.* Caucasus.

53. *Allantus rufoniger*.

*Allantus rufoniger*, *André, Spec. Hym.* i. p. 374 (1881).

*Hab.* Algeria.

54. *Allantus pectoralis*.

*Allantus pectoralis*, *Kriechb. Verh. z.-b. Wien*, xix. p. 596 (1869).

*Hab.* Tunis.

55. *Allantus tricolor*.

*Allantus tricolor*, *Kriechb. Verh. z.-b. Wien*, xix. p. 595 (1869).

*Hab.* Tunis.

56. *Allantus balteatus*.

*Allantus balteatus*, *Kriechb. Verh. z.-b. Wien*, xix. p. 595 (1869).

*Hab.* Tunis.

57. *Allantus analis*.

*Allantus analis*, *André, Spec. Hym.* i. p. 403 (1881).

*Hab.* West Siberia.

58. *Allantus vittatus*.

*Allantus vittatus*, *Kriechb. Verh. z.-b. Wien*, xix. p. 593 (1869).

*Hab.* Brussa.

59. *Allantus pictus*.

*Allantus pictus*, *André, Spec. Hym.* i. p. 592 (1881); *id. Ann. Soc. Ent. Fr.* (6) i. p. 356 (1881).

*Hab.* Syria.

60. *Allantus nazarensis*.

*Allantus nazarensis*, *André, Spec. Hym.* i. p. 593 (1881); *id. Ann. Soc. Ent. Fr.* (6) i. p. 357 (1881).

*Hab.* Nazareth.

61. *Allantus abeillei*.

*Allantus abeillei*, *André, Spec. Hym.* i. p. 594 (1881); *id. Ann. Soc. Ent. Fr.* (6) i. p. 355 (1881).

*Hab.* Syria.

62. *Allantus calcaratus*.

*Allantus calcaratus*, *André, Spec. Hym.* i. p. 595 (1881); *id. Ann. Soc. Ent. Fr.* (6) i. p. 357 (1881).

*Hab.* Syria.

63. *Allantus maculatus*.

*Allantus maculatus*, *Kriechb. Verh. z.-b. Wien*, xix. p. 594 (1869).

*Hab.* Aleppo.

64. *Allantus syriacus*.

*Allantus syriacus*, *André, Spec. Hym.* i. p. 386 (1881).

*Hab.* Algeria, Syria, Caucasus.

65. *Allantus parvulus*.

*Allantus parvulus*, *Kriechb. Verh. z.-b. Wien*, xix. p. 589 (1869).

*Hab.* Amasia.

66. *Allantus pallipes*.

*Allantus pallipes*, *Freym. Protocole Soc. Antr. Mosc.* viii. p. 214 (1870).

*Hab.* Samarcand.

67. *Allantus similis*.

*Allantus similis*, *Mocs. Term. füzetek*, iv. p. 270 (1880).

*Hab.* Persia.

- B. *North-American Species, including Mexico.*

68. *Allantus originalis*.

*Allantus originalis*, *Nort. Trans. Amer. Ent. Soc.* i. p. 261 (1867).

*Hab.* Labrador.

69. *Allantus opimus*.

*Allantus opimus*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 15 (1880).

*Hab.* Vancouver's Island.

70. *Allantus basilaris*.

*Tenthredo basilaris*, *Say, Long's Second Exped.* ii. p. 316 (1824).

*Allantus basilaris*, *Nort. Bost. Journ.* vii. p. 240 (1860); *id. Proc. Ent. Soc. Phil.* iii. p. 10 (1864); *id. Trans. Amer. Ent. Soc.* i. p. 261 (1867).

*Hab.* North America.

a-c. ♀.

Nova Scotia.

Lieut. Redman.

d. ♀.

Nova Scotia.

e. ♂.

New York.

71. *Allantus dubius*.

*Allantus dubius*, *Nort. Bost. Journ.* vii. p. 240 (1860); *id. Trans. Amer. Ent. Soc.* i. p. 262 (1867).

*Hab.* Massachusetts.

72. *Allantus ornaticeps*.

*Allantus ornaticeps*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 16 (1880).

*Hab.* Nevada.

73. *Allantus nigriceps*.

*Allantus nigriceps*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 16 (1880).

*Hab.* Nevada.

74. *Allantus elegantulus*.

*Allantus elegantulus*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 17 (1880).

*Hab.* Nevada.

75. *Allantus annularis*.

*Allantus annularis*, *Nort. Trans. Amer. Ent. Soc.* i. p. 262, n. 4 (1867).

*Hab.* California.

76. *Allantus cogitans*.

*Allantus cogitans*, *Provancher, Nat. Canad.* x. p. 163 (1878).

*Hab.* Canada.

77. *Allantus interruptus*.

*Allantus interruptus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 263, n. 5 (1867).

*Hab.* California.

78. *Allantus limbatus*.

*Allantus limbatus*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 17 (1880).

*Hab.* California.

79. *Allantus maximus*.

*Allantus maximus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 263, n. 6 (1869).

*Hab.* Washington Territory.

80. *Allantus unicinctus*.

*Allantus unicinctus*, *Nort. Proc. Ent. Soc. Phil.* iii. p. 9, n. 17 (1864);  
*id. Trans. Amer. Ent. Soc.* i. p. 264, n. 7 (1867).

*Hab.* Colorado.

81. *Allantus nevadensis*.

*Allantus nevadensis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 17 (1880)

*Hab.* Nevada.

82. *Allantus occidaneus*.

*Allantus occidaneus*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 18 (1880).

*Hab.* Colorado; New Mexico.

C. *Indian Species, including China.*83. *Allantus himalayensis*.

*Allantus himalayensis*, *Radosz. Hor. Ent. Ross.* viii. p. 195 (1872).

*Hab.* Himalaya.

84. *Allantus trochanteratus*.

(Plate IX. fig. 19.)

*Allantus trochanteratus*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 464.

Exp. al. 10–11 lin., long. corp. 4–5 lin.

Black; head pilose, punctured; antennæ rather long, thickened towards the extremity. Clypeus, labrum (in male only, reddish brown in female), palpi, coxæ and trochanters, narrow belts on the extremities of segments 2–4 above (nearly obsolete in the female, except on the sides), a large square spot on the back of segment 8, and the front of the four anterior femora and tibiæ, pale yellow; femora otherwise, and the upperside of the four anterior tibiæ and tarsi in the male, and of the front tibiæ only in the female, black. Collar, tegulæ, tibiæ, and tarsi (except as previously indicated) reddish; joints of the tarsi black at the tips. Wings yellowish hyaline, with brown stigma and nervures; costa yellowish; a smoky shade extending over the upper half of the fore wings, except at the base.

*Hab.* North India.

*a-d.* ♂ ♀. (Types.)

North India.

Capt. Boyes.

85. *Allantus simillimus*.

*Allantus simillimus*, *Smith, 2nd Yarkand Miss., Hym.* p. 19 (1878).

*Hab.* Murree, Punjab Hills.

86. *Allantus providus*.

*Allantus providus*, *Smith, 2nd Yarkand Miss., Hym.* p. 18 (1878).

*Hab.* Murree, Punjab Hills.

87. *Allantus terminalis*.

*Allantus terminalis*, *Smith, 2nd Yarkand Miss., Hym.* p. 19 (1878).

*Hab.* Sind valley, Kashmir.

88. *Allantus felderi*.

*Allantus felderi*, *Radosz. Hort. Ent. Ross.* viii. p. 196 (1872).

*Hab.* Ningpo.

92. *SIOBLA*.

*Siobla*, *Cameron, Trans. Ent. Soc. Lond.* 1877, p. 88.

"Anterior wings with two marginal and four submarginal cellules, the second and third of the latter receiving each a recurrent nervure; lanceolate cellule with an oblique cross nervure; posterior wings with two middle cellules. Antennæ 9-jointed, the apical joints thickened, the third joint much longer than fourth; clypeus small, the apex truncated; eyes large, reaching to near the base of the mandibles."—*Cameron*.

Type *S. mooreana*. I place in this genus a number of species (chiefly Asiatic) which agree with it in the majority of their characters, especially in the oblique cross nervure of the lanceolate cell. The hind coxæ are generally as long as in *Macrophya*, with which they were formerly associated; but the abdomen is much shorter than in that genus.

1. *Siobla sturmii*.

*Tenthredo* (*Allantus*) *sturmii*, *Klug, Berl. Mag.* viii. p. 116, n. 83 (1818).

? *Allantus ruficornis*, *Gimm. Bull. Mosc.* vii. p. 124 (1834).

*Hab.* Nuremberg; Livonia(?)

2. *Siobla ruficornis*.

(Plate IX. figs. 16 ♂, 18 ♀.)

*Eriocampa ruficornis*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 462.

Exp. al. 11 lin., long. corp.  $4\frac{1}{2}$  lin.



Head and thorax dull black, coarsely punctured; clypeus and antennæ reddish; cenchri white. Abdomen black at base and tip above, and more shining than the head and thorax; segments 3–6 above (except the base of the third) and whole undersurface shining luteous; saws reddish. Legs luteous; coxæ and trochanters black, and four front femora black at base; hind coxæ large; hind femora black, except at base; hind tibiæ black at the extremity. Wings yellowish hyaline, with brownish nervures; costa and stigma yellow; tegulæ black.

In the male the markings are redder, the antennæ are black at the base nearly to the end of the third joint, and only segments 3, 4, and part of 5 are red above. Segments 2–5 are reddish at the sides and beneath; beyond this the sides are black beneath, and the anal segment is whitish.

*Hab.* Amoor.

*a, b.* ♂ ♀. (Types.)

Amoor.

### 3. *Siobla pacifica*.

(Plate IX. fig. 17.)

*Macrophya pacifica*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 378.

*Exp.* al. 12 lin., long. corp. 5 lin.

Black, shining; antennæ reddish, the two basal joints darker, cenchri yellow; second segment of abdomen luteous above, but divided in the middle; four front legs reddish yellow below the tips of the femora, hind femora wholly black; tibiæ and tarsi reddish yellow at the base; hinder half of tibiæ, and of the first joint of the tarsi, and the tips of the remaining joints, black. Wings dull yellowish hyaline, with fuscous nervures; stigma yellow; a dark line along the costa.

Described from one female example. Smith describes the male as having the base of the antennæ black, nearly to the extremity of the third joint, and a yellow, slightly interrupted band on segments 2 and 3 of the abdomen. But no such specimen exists in the British-Museum collection.

*Hab.* Japan.

*a.* ♀. (Type.)

North Japan.

R. Fortune.

### 4. *Siobla flavipes*.

(Plate IX. fig. 22.)

*Macrophya flavipes*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 381.

*Exp.* al. 8 lin., long. corp.  $3\frac{1}{2}$  lin.

Head black between the eyes; antennæ reddish yellow, face paler yellow, back of head reddish. Thorax black, with a reddish patch

in the middle; scutellum reddish, collar (narrowly) and cenchri yellowish. Abdomen black above, with a reddish shine; the two first segments above, the four first beneath, and all the legs, including the coxæ, yellow. Wings dusky hyaline, with fuscous nervures; costa yellowish, stigma black.

This insect agrees in shape and neururation with the two preceding species, but the antennæ are more slender.

*Hab.* Japan.

*a.* ♀. (Type.)

Hiogo.

G. Lewis, Esq.

### 5. *Siobla ferox*.

(Plate IX. fig. 20.)

*Macrophya ferox*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 379.

Exp. al. 13 lin., long. corp. 6 lin.

Black; antennæ, collar, tegulæ, scutellum, hinder edge of metathorax, first five segments of abdomen (the first broadly edged with black in front, and the second less broadly so), four front legs, the hind tibiæ (except the apical third, which is black), and the hind tarsi reddish yellow; face, cenchri, four anterior coxæ, and hind trochanters and tips of coxæ paler yellow; hind coxæ and femora otherwise black. Wings yellowish hyaline, clouded towards the extremity; nervures fuscous; costa and stigma yellowish, the former darkest before the stigma.

Described from one male example (not a female, as stated by Smith).

*Hab.* Japan.

*a.* ♂. (Type.)

Hakodadi.

H. Whitely, Esq.

### 6. *Siobla incerta*.

(Plate IX. fig. 15.)

*Tenthredo incerta*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 465.

Exp. al. 8 lin., long. corp. 4 lin.

Head, abdomen, and middle of pectus blue-black, shining, with a reddish shade on the undersurface; head covered with a fine whitish pile. Thorax and sides of pectus in front red; the angular spot at the extremity of the first segment of the abdomen, segments 3 and 4 above, and part of the legs white; base of coxæ, middle of femora, and extremity of hind tibiæ black; all the tarsi more or less black, except the base of the anterior tarsi. Wings hyaline at the base, and clouded at the extremities; nervures piceous; costa and stigma more uniformly dark than usual, a dark cloud below the latter.

The hind coxæ are much smaller than in the other species which

I have provisionally included in *Siobla*; but they are likewise shorter in the American species than in those from Northern Asia.

*Hab.* Burmah.

*a. ♂.* (Type.)

Burmah.

Mrs. Waring.

### 7. *Siobla mooreana*.

*Siobla mooreana*, *Cameron, Trans. Ent. Soc. Lond.* 1877, p. 89.

*Hab.* West Yunnan.

### 8. *Siobla excavata*.

*Allantus excavatus*, *Nort. Proc. Ent. Soc. Phil.* i. p. 143 (1861).

*Macrophya excavatus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 266, n. 1 (1867).

*Hab.* United States.

### 9. *Siobla robusta*.

(Plate IX. fig. 21.)

*Exp. al.* 1 lin., *long. corp.* 4–5 lin.

Body short and stout; lanceolate cell with oblique cross nervure; hind wings with one middle cell (two on one side of one specimen); hind coxæ shorter than usual, scarcely extending beyond the third segment of the abdomen.

Black; head and thorax coarsely punctured; collar yellow or reddish; the two basal joints of the antennæ, and sometimes the base of the third, clypeus, tegulæ, hinder edge of the metathorax above, and second segment of the abdomen above, rufous; a spot on each side of the prothorax in front; cenchri and first segment of the abdomen above yellow. Anterior legs wanting; intermediate legs yellowish; femora blackish towards the base. Hind legs yellow, the greater part of the coxæ and femora and apical third of the tibiæ black; trochanters and adjacent parts and base of tibiæ yellow; tarsi black or rufous. Wings smoky yellow, clearer towards the base, especially on the hind wings; nervures rufous; stigma yellow on the basal side.

Allied to the last species.

*Hab.* Georgia.

*a, b. ♀.* (Types.)

Georgia\*.

Probably from Abbot's collection.

### 93. ALLOMORPHA.

*Allomorpha*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 463.

Head large, produced for half its length behind the eyes; antennæ

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\* This species is figured in Abbot's MS. drawings, xii. pl. lxii. fig. 2, with the following note attached:—"Taken 15th April in the pine-woods. Rare."

with the third joint considerably longer than fourth, fifth to eighth gradually becoming thickened, shorter, and sharply divided from preceding; apical joint thinner, conical. Clypeus very deeply incised, labrum rounded. Body shaped as in *Tenthredo*. Fore wings with the neurulation of *Strongylogaster*; lanceolate cell with oblique cross nervure; hind wings with one inner cell. Patella not so sharply developed as in *Strongylogaster*; first joint of tarsi nearly twice and a half longer than the following; spurs short and thick; hind tarsi longer than the tibiae. Abdomen smooth, shining. Breast and pleura punctured.

### 1. *Allomorpha incisa*.

(Plate X. fig. 22.)

*Allomorpha incisa*, Cameron, *Trans. Ent. Soc. Lond.* 1876, p. 463.

Exp. al. 10 lin., long. corp. 5 lin.

Head testaceous; vertex and a stripe on the lower parts of the cheeks black, the former very coarsely punctured; antennæ black, the three first joints with a chocolate tinge, especially beneath, joint four and the greater part of five testaceous. Thorax and abdomen black; thorax and pectus dull, closely punctured; tegulæ, scutellum, postscutellum, cenchri, a band behind, a large triangle on the first segment of the abdomen, the second and terminal segments, a line down the middle of the remaining segments, more or less of the middle of the abdomen beneath, and the legs testaceous. Coxæ except at tips, hind femora except at base, and tips of hind tibiae black. Wings hyaline, with piceous nervures and yellowish stigma.

*Hab.* China.

a. ♀. { (Types.)  
b. ♀. {

Hong Kong.  
Shanghai.

J. C. Bowring, Esq.  
R. Fortune.

### 94. *ERMILIA*.

*Ermilia*, Costa, *Faun. Nap., Tentr.* p. 106 (1859).

#### 1. *Ermilia pulchella*.

*Ermilia pulchella*, Costa, *Faun. Nap., Tentr.* p. 106, pl. lxxvi. fig. 6 (1859).

*Hab.* Naples.

### 95. *BELESES*.

*Beleses*, Cameron, *Trans. Ent. Soc. Lond.* 1877, p. 88, note.

*Anisoneura*, Cameron, *Trans. Ent. Soc. Lond.* 1876, p. 463, *nom. præocc.*

Antennæ a little longer than the abdomen, pilose, the third joint a little longer than the fourth, the remaining joints shorter and

thickened; terminal joint thinner and conical. Clypeus not incised. Wings with two marginal and four submarginal cells, marginal cells about equal, divided by a straight oblique nervure; first submarginal cell rather small, the bounding nervure straight, third submarginal cell dilated at the extremity; second and third submarginal nervures distinctly curved inwards towards the base; marginal nervure received nearly at the extremity of the third submarginal cellule; first recurrent nervure received at about a third of the length of the second submarginal cellule; second recurrent nervure curved inwards, and corresponding with the second submarginal nervure. Lanceolate cellule open at the shoulders, with a very oblique cross line. Body as in *Macrophya*. Hind coxæ very large and long; spurs of the anterior tibiæ simple.

### 1. *Beleses stigmatalis*.

(Plate X. fig. 21.)

*Anisoneura stigmatalis*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 464.

Exp. al. 10–11 lin., long. corp.  $4\frac{1}{2}$  lin.

Luteous, shining; head and thorax rather darker above; antennæ gradually shading into black from beyond the second joint above, pale beneath; more or less of the apex of the abdomen, and of the hind tarsi, which are broad and densely pilose, black. Pectus, hind coxæ, and femora covered with very fine depressed punctures. Wings yellowish hyaline, blackish at the tips; nervures fuscous; costa and stigma yellow, the tip of the latter, within the dark apex of the wing, black.

*Hab.* China.

*a, b.* ♂ ♀. (Types.)

Shanghai.

R. Fortune.

### 2. *Beleses fulvus*.

*Beleses fulvus*, *Cameron, Trans. Ent. Soc. Lond.* 1877, p. 88.

*Hab.* West Yunnan.

## 96. MACROPHYA.

*Macrophya*, *Dahlb. Consp. Tenth.* p. 11 (1835); *Hart. Blattw.* p. 291 (1837).

A. *Europæo-Asiatic and Mediterranean Species, including Japan and North Africa.*

### 1. *Macrophya erythrogaster*.

*Tenthredo erythrogaster*, *Spin. Ann. Soc. Ent. Fr.* (2) i. p. 116 (1843).

*Hab.* Spain.

2. *Macrophya blanda*.

(Plate XVI. fig. 7.)

- Tenthredo blanda*, *Fabr. Syst. Ent.* p. 323, n. 30 (1775); *Panz. Faun. Germ.* Heft 52, pl. ix. (1798).  
*Tenthredo* (Allantus) *blanda*, *Klug, Berl. Mag.* viii. p. 111, n. 76 (1818).  
*Tenthredo cylindrica*, *Panz. Faun. Germ.* Heft 71, pl. vii. (1799).  
*Tenthredo ligustrina*, *Fourcr. Ent. Par.* ii. p. 371, n. 24 (1785).  
*Tenthredo lacrymosa*, *St.-Farg. Mon. Tenth.* p. 101, n. 285 (1823);  
*id. Faun. Franç.* p. 43, n. 65, pl. vi. fig. 7.  
*Tenthredo annulata*, *Fourcr. Ent. Par.* ii. p. 373, n. 29 (1785).  
*Tenthredo solitaria*, *Schränk, Enum. Ins. Austr.* p. 326, n. 658 (1781);  
*id. Fauna Boica*, ii. pt. 2, p. 241 (1802).  
*Tenthredo abietis*, *St.-Farg. Mon. Tenth.* p. 97, n. 275 (1823); *id. Faun. Franç.* p. 39, n. 55, pl. vi. fig. 3.  
*Tenthredo cognata*, *Fall. Mon. Tenth.* p. 48, n. 17 (1829).  
*Macrophya blanda*, *Costa, Faun. Nap., Tentr.* p. 71, pl. lxxi. bis, fig. 5 (1859); *Thoms. Hym. Scand.* i. p. 251 (1871).  
*Tenthredo nyctea*, *Fisch. Mag. Zool.* 1843, text to pl. 122, p. 2.

Exp. al. 11 lin., long. corp.  $5\frac{1}{2}$  lin.

*Female.* Black; abdomen with segments 2–5 red; legs black, front legs whitish in front; hind coxæ with a large oval white spot.

*Hab.* Europe.

|                      |          |                      |
|----------------------|----------|----------------------|
| <i>a.</i> ♀. (Type.) | England. | Banksian Collection. |
| <i>b-k.</i> ♂ ♀.     | Britain. | J. F. Stephens.      |
| <i>l, m.</i> ♂ ♀.    | Britain. |                      |
| <i>n-q.</i> ♂ ♀.     | Germany. | J. F. Ruthe.         |
| <i>r-t.</i> ♀.       | Munich.  | H. Buchecker.        |
| <i>u.</i> ♀.         | Zurich.  | H. Buchecker.        |

3. *Macrophya brevicornis*.

*Macrophya blanda*, var. (?) *brevicornis*, *Gratl, Ent. Nachr.* iv. p. 239 (1878).

*Hab.* Egerland.4. *Macrophya neglecta*.

- Tenthredo* (Allantus) *neglecta*, *Klug, Berl. Mag.* viii. p. 112, n. 77 (1818).  
*Macrophya neglecta*, *Costa, Faun. Nap., Tentr.* p. 72 (1859); *Thoms. Hym. Scand.* i. p. 251 (1871).  
*Tenthredo blanda*, *Fall. Vet.-Akad. Handl.* xxix. p. 57 (1808).  
 Var. ? *Tenthredo schæfferi*, *St.-Farg. Mon. Tenth.* p. 90, n. 276 (1823);  
*id. Faun. Franç.* p. 39, n. 56, pl. vi. fig. 4.  
*Macrophya lepeletieri*, *Costa, Faun. Nap., Tentr.* p. 79, pl. lxxi. bis, fig. 6 (1859).

*Hab.* Europe.

|                  |                                       |                        |
|------------------|---------------------------------------|------------------------|
| <i>a-k.</i> ♂ ♀. | Britain.                              | J. F. Stephens.        |
| <i>l.</i> ♀.     | Easton Maudit, Northamp-<br>tonshire. | C. O. Waterhouse, Esq. |
| <i>m-q.</i> ♀.   | Germany.                              | J. F. Ruthe.           |
| <i>r-w.</i> ♂ ♀. | Munich.                               | H. Buchecker.          |
| <i>x, y.</i> ♀.  | Zurich.                               | H. Buchecker.          |

5. *Macrophya flavilabris*.

*Macrophya flavilabris*, *Gimmerth. Arb. Nat. Riga*, i. p. 55 (1848).

*Hab.* Livonia.

6. *Macrophya similis*.

*Tenthredo similis*, *Spin. Ins. Lig.* ii. p. 15, n. 21, pl. iv. fig. 13 (1808).  
*Tenthredo* (*Allantus*) *similis*, *Klug, Berl. Mag.* viii. p. 113, n. 78 (1818).

*Hab.* Genoa.

7. *Macrophya liciata*.

*Tenthredo liciata*, *Eversm. Bull. Mosc.* xx. p. 40, n. 3 (1847).

*Hab.* South Russia.

8. *Macrophya analis*.

*Tenthredo analis*, *Fabr. Ent. Syst.* ii. p. 115, n. 42 (1793).  
*Tenthredo* (*Allantus*) *militaris*, *Klug, Berl. Mag.* viii. p. 113, n. 79 (1818).

*Hab.* South Germany, Switzerland.

|                 |         |               |
|-----------------|---------|---------------|
| <i>a, b.</i> ♀. | Munich. | H. Buchecker. |
| <i>c.</i> ♀.    | Zurich. | H. Buchecker. |

9. *Macrophya corallipes*.

*Macrophya corallipes*, *Eversm. Bull. Mosc.* xx. p. 41, n. 5 (1847).

*Hab.* South Russia.

10. *Macrophya rufipes*.

*Tenthredo rufipes*, *Linn. Syst. Nat.* i. p. 557, n. 17 (1758); *id. Faun. Suec.* p. 392 (1761).  
*Tenthredo multicolor*, *Fourcr. Ent. Par.* ii. p. 370, n. 19 (1785).  
*Tenthredo strigosa*, *Fabr. Ent. Syst. Suppl.* p. 217 (1798).  
*Macrophya rufipes*, *Thoms. Hym. Scand.* i. p. 255 (1871).  
*Tenthredo dumetorum*, *Fourcr. Ent. Par.* ii. p. 373, n. 28 (1785).  
*Tenthredo* (*Allantus*) *strigosa et dumetorum*, *Klug, Berl. Mag.* viii. pp. 114, 115 (1818).  
*Tenthredo citreipes*, *St.-Farg. Mon. Tenth.* p. 96, n. 272 (1823); *id. Faun. Franç.* p. 37, n. 52, pl. vi. fig. 2.  
*Tenthredo rubiginosa*, *Gmel. Syst. Nat.* i. pt. 5, p. 2665, n. 106 (1789).  
? *Tenthredo palmata et perlata*, *Fourcr. Ent. Par.* ii. p. 375, nn. 36 & 37 (1785).  
*Macrophya dumetorum*, *Costa, Faun. Nap., Tent.* p. 80, pl. lxxii. fig. 2 (1859).

*Hab.* Europe.

|                  |                  |                 |
|------------------|------------------|-----------------|
| <i>a-e.</i> ♀.   | Britain.         | J. F. Stephens. |
| <i>f-g.</i> ♂ ♀. | Aix-la-Chapelle. | Prof. Förster.  |
| <i>h.</i> ♀.     | Germany.         | J. F. Ruthe.    |
| <i>i-n.</i> ♂ ♀. | Munich.          | H. Buchecker.   |

11. *Macrophya nebulosa*.

*Macrophya nebulosa*, *André, Spec. Hym.* i. p. 369 (1881).

*Hab.* Caucasus.

12. *Macrophya grata*.

*Tenthredo grata*, *St.-Farg. Mon. Tenth.* p. 96, n. 273 (1823).

*Hab.* North France.

13. *Macrophya maculipes*.

*Tenthredo maculipes*, *St.-Farg. Mon. Tenth.* p. 96, n. 274 (1823).

*Hab.* Paris.

14. *Macrophya picea*.

*Tenthredo picea*, *Gmel. Syst. Nat.* i. pt. 5, p. 2667, n. 129 (1789).

*Hab.* Europe.

15. *Macrophya sanguinolenta*.

*Tenthredo sanguinolenta*, *Gmel. Syst. Nat.* i. pt. 5, p. 2666, n. 110 (1789).

*Tenthredo hæmatopus*, *Panz. Faun. Germ.* Heft 81, pls. xi., xii. (1801).

*Tenthredo* (*Allantus*) *hæmatopus*, *Klug, Berl. Mag.* viii. p. 116, n. 84 (1818).

*Macrophya hæmatopus*, *Costa, Faun. Nap., Tentr.* p. 81, pl. lxxii. figs. 3, 4 (1859).

*Tenthredo diversipes*, *Schrank, Fauna Boica*, ii. p. 236 (1802).

*Hab.* Europe.

*a-f.* ♂ ♀.  
*g, h.* ♂.

Munich.  
Europe.

H. Buchecker.  
H. Buchecker.

16. *Macrophya punctum-album*.

*Tenthredo punctum-album*, *Linn. Syst. Nat.* i. pt. 2, p. 924, n. 23 (1767).

*Tenthredo punctum*, *Fabr. Spec. Ins.* i. p. 415, n. 44 (1781).

*Tenthredo stellata*, *Fourcr. Ent. Par.* ii. p. 369, n. 17 (1785).

*Tenthredo* (*Allantus*) *punctum*, *Klug, Berl. Mag.* viii. p. 117, n. 85 (1818).

*Macrophya punctum*, *Costa, Faun. Nap., Tentr.* p. 82, pl. lxxii. fig. 5 (1859).

*Macrophya punctum-album*, *Thoms. Hym. Scand.* i. p. 256 (1871).

*Hab.* Europe.

*a-i.* ♂ ♀.  
*k-m.* ♂ ♀.  
*n-q.* ♀.  
*r-v.* ♀.  
*w y.* ♀.  
*z.* ♂.

Britain.  
England.  
Germany.  
Munich.  
Zurich.  
Europe.

J. F. Stephens.  
F. Smith, Esq.  
J. F. Ruthe.  
H. Buchecker.  
H. Buchecker.



17. *Macrophya limbata*.

*Macrophya limbata*, *André, Spec. Hym. i. p. 360 (1881).*

*Hab.* Caucasus.

18. *Macrophya chrysura*.

*Tenthredo (Allantus) chrysura*, *Klug, Berl. Mag. viii. p. 118, n. 86 (1818).*

*Hab.* Carinthia.

19. *Macrophya ratzeburgii*.

*Macrophya ratzeburgii*, *Tischb. Stett. ent. Zeit. xiii. p. 137 (1852).*

*Hab.* Hungary.

20. *Macrophya quadrimaculata*.

*Tenthredo quadrimaculata*, *Fabr. Mant. Ins. i. p. 255, n. 48 (1787).*

*Tenthredo (Allantus) quadrimaculata*, *Klug, Berl. Mag. viii. p. 118, n. 87 (1818).*

*Macrophya 4-maculata*, *Thoms. Hym. Scand. i. p. 256 (1871).*

*Tenthredo sambuci*, *Panz. Faun. Germ. Heft 91, pl. viii. (1805).*

*Tenthredo tarsata*, *Panz. loc. cit. Heft 98, pl. x. (1809).*

*Hab.* Europe.

|                  |          |               |
|------------------|----------|---------------|
| <i>a-e.</i> ♂ ♀. | Germany. | J. F. Ruthe.  |
| <i>f-m.</i> ♂ ♀. | Munich.  | H. Buchecker. |
| <i>n.</i> ♀.     | Zurich.  | H. Buchecker. |

21. *Macrophya femoralis*.

*Tenthredo femoralis*, *Eversm. Bull. Mosc. xxxvii. pt. 1, p. 297 (1864).*

*Hab.* Ural.

22. *Macrophya rustica*.

*Tenthredo rustica*, *Linn. Syst. Nat. i. p. 556, n. 11 (1758); id. Faun. Suec. p. 390 (1761).*

*Tenthredo (Allantus) rustica*, *Klug, Berl. Mag. viii. p. 119, n. 88 (1818).*

*Macrophya rustica*, *Costa, Faun. Nap., Tentr. p. 73 (1859); Thoms. Hym. Scand. i. p. 252 (1871).*

*Tenthredo notata*, *Panz. Faun. Germ. Heft 64, pl. x. (1799).*

*Tenthredo carbonaria*, *Fabr. Spec. Ins. i. p. 415, n. 48 (1781).*

*Tenthredo sulphurata*, *Gmel. Syst. Nat. i. pt. 5, p. 2665, n. 103 (1789).*

*Tenthredo vespa*, *Retz. Gen. Sp. Ins. p. 72, n. 302 (1783).*

*Hab.* Europe.

|                   |           |                     |
|-------------------|-----------|---------------------|
| <i>a-m.</i> ♂ ♀.  | Britain.  | J. F. Stephens.     |
| <i>n, o.</i> ♂.   | Germany.  | J. F. Ruthe.        |
| <i>p-t.</i> ♂ ♀.  | Munich.   | H. Buchecker.       |
| <i>u-z.</i> ♂ ♀.  | Zurich.   | H. Buchecker.       |
| <i>aa.</i> ♂.     | Albania.  | Sir S. S. Saunders. |
| <i>bb.</i> ♂.     | Portugal. | Dr. Welwitsch.      |
| <i>cc, dd.</i> ♂. | Europe.   |                     |

23. *Macrophya* (?) *bifasciata*.

*Tenthredo bifasciata*, *Gmel. Syst. Nat.* i. pt. 5, p. 2666, n. 113 (1789).

*Hab.* Europe.

24. *Macrophya postica*.

*Tenthredo postica*, *Brullé, Expéd. Scient. de Morée*, iii. (1) pt. 2, p. 388 (1832).

*Hab.* Turkey, Greece.

*a-d.* ♂ ♀.

Albania.

Sir S. S. Saunders.

25. *Macrophya hartigii*.

(Plate X. fig. 1.)

*Exp.* al. 11 lin., long. corp. 5 lin.

Black; mouth, cenchri, and a triangular mark at the extremity of the first segment of the abdomen pale yellow; segments 4 and 5 of the abdomen above narrowly bordered behind with yellow, the band on the fifth segment interrupted in the middle; legs yellow, femora black in the middle above (hind femora almost all round), extremities of the tibiæ and of the joints of the tarsi black, hind tarsi wholly black, hind coxæ black at the base. Wings yellowish hyaline, with reddish-brown nervures; basal half of the stigma yellow.

The type is labelled "*dahlia*." It does not agree with the description of *Tenthredo* (*Allantus*) *dahlia*, Klug, but is allied to *M. postica*, Brullé.

*Hab.* Albania.

*a.* ♂. (Type.)

Albania.

26. *Macrophya erythropus*.

*Tenthredo erythropus*, *Brullé, Expéd. Scient. de Morée*, iii. (1) pt. 2, p. 389 (1832).

*Hab.* Morea.

27. *Macrophya rubripes*.

*Macrophya rubripes*, *André, Spec. Hym.* i. p. 590 (1881).

*Hab.* Greece.

28. *Macrophya teutona*.

*Tenthredo teutona*, *Panz. Faun. Germ.* Heft 71, pl. vi. (1799).

*Tenthredo* (*Allantus*) *teutona*, *Klug, Berl. Mag.* viii. p. 122, n. 90 (1818).

*Hab.* Germany.

29. *Macrophya dolens*.

*Tenthredo dolens*, *Eversm. Bull. Mosc.* xx. p. 42, n. 9 (1847).

*Hab.* Kasan.

30. *Macrophya duodecimpunctata*.

*Tenthredo duodecimpunctata*, *Linn. Syst. Nat.* i. p. 558, n. 25 (1758);  
*id. Faun. Suec.* p. 393 (1761).

*Tenthredo* (*Allantus*) *duodecimpunctata*, *Klug, Berl. Mag.* viii. p. 122,  
 n. 91 (1818).

*Macrophya* 12-punctata, *Thoms. Hym. Scand.* i. p. 252 (1871).

*Tenthredo melanoleuca*, *Gmel. Syst. Nat.* i. pt. 5, p. 2666, n. 116  
 (1789).

*Hab.* Europe.

|                   |          |                 |
|-------------------|----------|-----------------|
| <i>a-f.</i> ♀.    | Britain. | J. F. Stephens. |
| <i>g-s.</i> ♂ ♀.  | Germany. | J. F. Ruthe.    |
| <i>t-y.</i> ♂ ♀.  | Munich.  | H. Buchecker.   |
| <i>z-cc.</i> ♂ ♀. | Zurich.  | H. Buchecker.   |

31. *Macrophya eximia*.

*Macrophya eximia*, *Mocs. Term. füzetek*, i. p. 87 (1877); *André*,  
*Spec. Hym.* i. p. 353 (1881).

*Hab.* Hungary.

32. *Macrophya maculosa*.

*Tenthredo maculosa*, *St.-Farg. Mon. Tenth.* p. 101, n. 283 (1823).

*Hab.* Campania.

33. *Macrophya montana*.

*Tenthredo montana*, *Scop. Ent. Carn.* p. 276, n. 724 (1763).

*Tenthredo laserpitii*, *St.-Farg. Mon. Tenth.* p. 127, n. 382 (1823).

*Hab.* Idria.

34. *Macrophya albicincta*.

*Tenthredo albicincta*, *Schrank, Beytr. z. Nat.* p. 85 (1776).

*Tenthredo* (*Allantus*) *albicincta*, *Klug, Berl. Mag.* viii. p. 125, n. 94  
 (1818).

*Macrophya albicincta*, *Costa, Faun. Nap., Tent.* p. 74, pl. lxiii. fig. 4  
 (1859); *Vollenh. Tijdschr. Ent.* ix. p. 189, pl. vii. (1866); *Thoms.*  
*Hym. Scand.* i. p. 254 (1871).

*Tenthredo albipes*, *Fourcr. Ent. Par.* ii. p. 371, n. 23 (1785).

*Tenthredo luctuosa*, *St.-Farg. Mon. Tenth.* p. 103, n. 290 (1823).

*Hab.* Europe.

|                   |          |                 |
|-------------------|----------|-----------------|
| <i>a-h.</i> ♂ ♀.  | Britain. | J. F. Stephens. |
| <i>i, k.</i> ♂ ♀. | Britain. |                 |
| <i>l.</i> ♀.      | France.  |                 |
| <i>m-u.</i> ♂ ♀.  | Germany. | J. F. Ruthe.    |
| <i>v.</i> ♀.      | Sweden.  |                 |
| <i>w-ee.</i> ♂ ♀. | Munich.  | H. Buchecker.   |
| <i>ff-ü.</i> ♂ ♀. | Zurich.  | H. Buchecker.   |

35. *Macrophya albimacula*.

*Macrophya albimacula*, *Mocs. Term. füzetek*, v. p. 30 (1881); *André*,  
*Spec. Hym.* i. p. 353 (1881).

*Hab.* Hungary.

36. *Macrophya tricoloripes*.

*Macrophya tricoloripes*, *Mocs. Term. füzetek*, v. p. 30 (1881); *André, Spec. Hym.* i. p. 587 (1881).

*Hab.* Granada.

37. *Macrophya exalbida*.

*Tenthredo exalbida*, *Gmel. Syst. Nat.* i. pt. 5, p. 2667, n. 122 (1789); *St.-Farg. Mon. Tenth.* p. 103, n. 292 (1823).

*Macrophya melanosoma*, *Rudow, Stett. ent. Zeit.* xxxii. p. 392 (1871).

*Hab.* Europe.

38. *Macrophya magnicornis*.

*Tenthredo magnicornis*, *Eversm. Bull. Mosc.* xxxvii. pt. 1, p. 297 (1864).

*Hab.* Kasan.

39. *Macrophya tenella*.

*Macrophya tenella*, *Mocs. Term. füzetek*, v. p. 33 (1881); *André, Spec. Hym.* i. p. 590 (1881).

*Hab.* Hungary.

40. *Macrophya angustula*.

*Tenthredo angustula*, *Eversm. Bull. Mosc.* xxxvii. pt. 1, p. 297 (1864).

*Hab.* Ural.

41. *Macrophya marginata*.

*Macrophya marginata*, *Mocs. Term. füzetek*, v. p. 32 (1881); *André, Spec. Hym.* i. p. 385 (1881).

*Hab.* Dalmatia.

42. *Macrophya radoszkowskii*.

*Macrophya radoszkowskii*, *André, Spec. Hym.* i. p. 365 (1881).

*Hab.* Caucasus.

43. *Macrophya flavipes*.

*Macrophya flavipes*, *Tischb. Stett. ent. Zeit.* xiii. p. 138 (1852).

*Hab.* Birkenfeld.

44. *Macrophya halensis*.

*Tenthredo halensis*, *Aich. Zeitschr. Ferdinand.* (3) xv. p. 310 (1870).

*Hab.* Germany.

45. *Macrophya leucopus*.

*Tenthredo leucopus*, *Gmel. Syst. Nat.* i. pt. 5, p. 2666, n. 118 (1789).

*Tenthredo ribis*, *Panz. Faun. Germ.* Heft 32, pl. xii. (1796).

*Tenthredo* (*Allantus*) *ribis*, *Klug, Berl. Mag.* viii. p. 126, n. 95 (1818).

*Macrophya ribis*, *Costa, Faun. Nap., Tentr.* p. 76, pl. lxxiii. fig. 3 (1859); *Thoms. Hym. Scand.* i. p. 253 (1871).

*Tenthredo albamacula*, *St.-Farg. Mon. Tenth.* p. 102, n. 288 (1823).  
*Tenthredo fera*, *Fall. Vet.-Akad. Handl.* xxix. p. 102 (1808).

*Hab.* Europe.

|                  |          |                 |
|------------------|----------|-----------------|
| <i>a-f.</i> ♂ ♀. | Britain. | J. F. Stephens. |
| <i>g-l.</i> ♂ ♀. | Germany. | J. F. Ruthe.    |
| <i>m-r.</i> ♂ ♀. | Munich.  | H. Buchecker.   |
| <i>s, t.</i> ♀.  | Europe.  |                 |

#### 46. *Macrophya curvipes*.

*Macrophya curvipes*, *Gimmerth. Arb. Nat. Riga*, i. p. 56 (1848).

*Hab.* Livonia.

#### 47. *Macrophya pœcilopus*.

*Tenthredo pœcilopus*, *Aich. Zeitschr. Ferdinand.* (3) xv. p. 309 (1870).

*Hab.* Germany.

#### 48. *Macrophya vicina*.

*Tenthredo vicina*, *St.-Farg. Mon. Tenth.* p. 104, n. 294 (1823).

*Hab.* Paris.

#### 49. *Macrophya novemguttata*.

*Macrophya novemguttata*, *Costa, Faun. Nap., Tentr.* p. 83, pl. lxxiii. fig. 5 (1859).

*Hab.* Italy.

#### 50. *Macrophya caucasica*.

*Macrophya caucasica*, *André, Spec. Hym.* i. p. 357 (1881)

*Hab.* Caucasus.

#### 51. *Macrophya erythrocnema*.

*Macrophya erythrocnema*, *Costa, Faun. Nap., Tentr.* p. 77, pl. lxxii. fig. 1 (1859).

*Hab.* Naples.

#### 52. *Macrophya cognata*.

*Macrophya cognata*, *Mocs. Term. füzetek*, v. p. 31 (1881); *André, Spec. Hym.* i. p. 350 (1881).

*Hab.* Hungary.

#### 53. *Macrophya trochanterica*.

*Macrophya trochanterica*, *Costa, Ric. Entom. Parten.* pp. 17, 27, fig. 2 (1858); *id. Faun. Nap., Tentr.* p. 83 (1859).

*Hab.* Italy.

**54. *Macrophya segmentaria*.**

*Tenthredo segmentaria*, *Fabr. Ent. Syst. Suppl.* p. 215 (1798).

*Macrophya alboannulata*, *Costa, Faun. Nap., Tentr.* p. 78, pl. lxxii. fig. 6 (1859).

*Hab.* Italy.

**55. *Macrophya labiata*.**

*Tenthredo labiata*, *Fourcr. Ent. Par.* ii. p. 369, n. 18 (1785).

*Tenthredo astroites*, *Fourcr. loc. cit.* p. 375, n. 35 (1785).

*Tenthredo* (*Allantus*) *crassula*, *Klug, Berl. Mag.* viii. p. 124, n. 92 (1818).

*Macrophya crassula*, *Costa, Faun. Nap., Tentr.* p. 75, pl. lxxiii. figs. 1, 2 (1859).

*Tenthredo discolor*, *St.-Farg. Mon. Tenth.* p. 101, n. 286 (1823).

*Tenthredo albimana*, *St.-Farg. Mon. Tenth.* p. 102, n. 289 (1823).

*Tenthredo albipuncta*, *Fall. Vet.-Akad. Handl.* xxix. p. 104 (1808).

*Macrophya albipuncta*, *Thoms. Hym. Scand.* i. p. 254 (1871).

*Hab.* Europe.

a. ♂.

Sweden.

**56. *Macrophya tibialis*.**

*Macrophya tibialis*, *Mocs. Term. füzetek*, v. p. 33 (1881); *André, Spec. Hym.* i. p. 362 (1881).

*Hab.* Hungary.

**57. *Macrophya klugii*.**

*Macrophya klugii*, *Vollenh. Tijdschr. Ent.* xii. p. 124 (1869).

*Hab.* Holland.

**58. *Macrophya histrionica*.**

*Macrophya histrionica*, *Vollenh. Tijdschr. Ent.* xxi. p. 155 (1878).

*Hab.* Baireuth.

**59. *Macrophya carinthiaca*.**

*Tenthredo* (*Allantus*) *carinthiaca*, *Klug, Berl. Mag.* viii. p. 125, n. 93 (1818).

*Hab.* Carinthia.

**60. *Macrophya signata*.**

*Tenthredo signata*, *Scop. Ent. Carn.* p. 279, n. 732 (1763).

*Tenthredo idriensis*, *St.-Farg. Mon. Tenth.* p. 128, n. 384 (1823).

*Hab.* Idria.

**61. *Macrophya corynetes*.**

(Plate X. fig. 3.)

Exp. al. 9 lin., long. corp. 4 lin.

Rufous; antennæ (except the basal joint), a large spot on the vertex enclosing the ocelli, spots on the frontal and lateral lobes of

the thorax (the two latter connected behind), the pectus, and the greater part of the metathorax and abdomen above, except at the sides and tip, black; a black line on the four anterior tibiæ and tarsi above; hind tarsi mostly black. Wings hyaline, with fuscous nervures; costa and stigma yellowish; lanceolate cell with short straight cross line. Antennæ with the third joint very long, and the succeeding joints short and almost fused together into an elongated club.

*Hab.* Algeria\*.

*a, b.* ♀. (Types.)

Algeria.

## 62. *Macrophya lucasii*.

(Plate X. fig. 2.)

*Exp. al.* 9 lin., long. corp. 4 lin.

Black; abdomen with segments 3-5 red above only; labrum, clypeus, cenchri, a line at the extremity of the first segment of the abdomen above, and legs testaceous; a line down the first pair of legs and the middle tibiæ above, all the femora except at the base and tip, and the tips of the hind femora and the hind tarsi, and the tips of the joints of the intermediate tarsi, black. Wings yellowish hyaline, with fuscous nervures; stigma yellowish in front; lanceolate cell with straight cross nervure. In the *male*, segments 3-5 of the abdomen are red below as well as above, there is a black line on the four front legs above, and the hind legs are black below the middle of the femora above and beyond the base of the tibiæ beneath; the joints of the tarsi are also testaceous at the base beneath.

*Hab.* Algeria.

*a-c.* ♂ ♀. (Types.)

Algeria.

## 63. *Macrophya cognata*.

(Plate X. fig. 5.)

*Exp. al.*  $8\frac{1}{2}$  lin., long. corp.  $3\frac{1}{2}$  lin.

Black; abdomen rufous beneath, and on segments 3-5 and the sides of 6 above; segment 3 has a black spot in the middle in front. Face and legs yellowish, coxæ black except at the tips, femora with a black line above, and coxæ black above; extremity of the abdomen yellowish beneath. Wings hyaline, with fuscous nervures, yellow costa, and pale testaceous stigma; lanceolate cell with short straight cross line.

*Hab.* Algeria.

*a.* ♂. (Type.)

Algeria.

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\* In the Algerian species the hind coxæ are not remarkably long or large; but their short, stout, thickened antennæ prevent their being referred to *Tenthredo*, and I prefer to assign them to *Macrophya* for the present.

64. *Macrophya superba*.

*Macrophya superba*, *Tischb. Stett. ent. Zeit.* xiii. p. 137 (1852).

*Hab.* Asia Minor.

65. *Macrophya ottomana*.

*Macrophya ottomana*, *Mocs. Term. füzetek*, v. p. 29 (1881); *André, Spec. Hym.* i. p. 591 (1881).

*Hab.* Amasia.

66. *Macrophya consobrina*.

*Macrophya consobrina*, *Mocs. Term. füzetek*, v. p. 32 (1881); *André, Spec. Hym.* i. p. 588 (1881) *id. Ann. Soc. Ent. France* (6), i. p. 353 (1881).

*Hab.* Syria.

67. *Macrophya lineata*.

*Macrophya lineata*, *Mocs. Term. füzetek*, v. p. 34 (1881); *André, Spec. Hym.* i. p. 589 (1881); *id. Ann. Soc. Ent. France* (6), i. p. 354 (1881).

*Hab.* Palestine.

68. *Macrophya tristis*.

*Macrophya tristis*, *André, Spec. Hym.* i. p. 349 (1881).

*Hab.* West Siberia.

69. *Macrophya brunnipes*.

*Macrophya brunnipes*, *André, Spec. Hym.* i. p. 349 (1881).

*Hab.* West Siberia.

70. *Macrophya dibowskii*.

*Macrophya dibowskii*, *André, Spec. Hym.* i. p. 361 (1881).

*Hab.* West Siberia.

71. *Macrophya ignava*.

(Plate X. fig. 4.)

*Macrophya ignava*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 379.

Exp. al. 9 lin., long. corp.  $4\frac{1}{2}$  lin.

Black, face reddish or yellowish; collar, cenchri, apex of coxæ, trochanters, extreme base of femora, and tibiæ pale yellow; hind tibiæ black at base and tip; hind tarsi black, four anterior tarsi reddish brown. Wings dusky hyaline, with fuscous nervures; lanceolate cell subcontracted.

Allied to *M. albicincta*.

*Hab.* Japan.

*a-c.* ♀. (Types.)

Hiogo.

G. Lewis, Esq.



72. *Macrophya luctifera*.

(Plate X. fig. 8.)

*Macrophya luctifera*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 380.Exp. al. 6 lin., long. corp.  $3\frac{1}{2}$  lin.

Shining black; tips of anterior femora in front, and tibiæ also in front, hind trochanters, base of tibiæ outside, and cenchri white. Wings fuscous, nervures black; stigma white at base.

*Hab.* Japan.*a.* ♀. (Type.)

Hiogo.

G. Lewis, Esq.

73. *Macrophya carbonaria*.

(Plate X. fig. 6.)

*Macrophya carbonaria*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 380.

Exp. al. 11 lin., long. corp. 5 lin.

Black, shining; pectus dull; head and thorax punctured, most deeply on the pectus; abdomen more finely punctured. Head, thorax, and legs covered with a short grey pubescence. A spot on each side of the clypeus, its anterior margin, the base of the mandibles, the anterior tibiæ in front, and the tip of the femora, a large oval spot on the hind coxæ, and the middle of the hind tibiæ above, white. Wings yellowish hyaline, with fuscous nervures; costa and stigma black; lanceolate cell with straight cross nervure.

*Hab.* Japan.*a.* ♀. (Type.)

Hakodadi.

H. Whitely, Esq.

74. *Macrophya timida*.

(Plate X. fig. 7.)

*Macrophya timida*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 380.Exp. al. 10 lin., long. corp.  $4\frac{1}{2}$  lin.

Black, punctured as in *M. carbonaria*, but not pubescent; base of the mandibles, front of the anterior legs from near the extremity of the femora downwards, front of the intermediate legs from the middle of the tibiæ, a large oval spot on the hind coxæ, and the trochanters, including the adjacent portions of the coxæ and femora, whitish or testaceous. Wings hyaline, with black nervures; lanceolate cell contracted.

But for the difference in the lanceolate cell I should scarcely have considered this species to be distinct from *M. carbonaria*.

*Hab.* Japan.*a.* ♀. (Type.)

North Japan.

R. Fortune.

**75. *Macrophya vexator*.**

*Macrophya vexator*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 378.

*Hab.* North Japan\*.

**76. *Macrophya apicalis*.**

(Plate X. fig. 9.)

*Macrophya apicalis*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 378.

Exp. al. 9 lin., long. corp. 5 lin.

Black; the four last joints of the antennæ (except the extreme apex of the last), labrum, base of mandibles, front of anterior tibiæ and tarsi, a large oval spot on the outside of the hind coxæ, hind trochanters, and adjacent portions of the coxæ and femora whitish. Wings hyaline, with fuscous nervures; lanceolate cell subcontracted. Head, thorax, and pectus closely punctured; abdomen more shining.

*Hab.* Japan.

*a-c.* ♀. (Types.)

Hakodadi.

H. Whitely, Esq.

**77. *Macrophya flavomaculata*.**

(Plate X. fig. 10.)

*Allantus flavomaculatus*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 464.

Exp. al. 13 lin., long. corp. 6 lin.

Black, shining; sides of pectus opaque, punctured; antennæ (except the three or four last joints, which shade into blackish), face, a long spot on the back of the vertex, collar (broadly), and the edge of the pectus below, at a right angle, a spot on each side of the front of the pectus (sometimes), two spots in the middle of the thorax, scutellum, postscutellum, and cenchri, the hinder edge of all the segments of the abdomen (obscured in the types, which are apparently discoloured from having been in spirit), and the legs, yellow. Hind legs with the coxæ black nearly to the extremity, with a round yellow spot on the side; hinder half of the femora, and the tips of the tibiæ, with their long spurs, yellow. Head pilose. Wings yellowish hyaline, with yellowish nervures; clouded at the extremity; costa and stigma blackish; lanceolate cell subcontracted.

*Hab.* China.

*a-e.* ♀. (Types.)

Shanghai.

R. Fortune.

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\* I cannot find any specimens of this species in the collection.

78. *Macrophya nigropicta*.

(Plate X. fig. 12.)

*Macrophya nigropicta*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 377.

Exp. al. 12 lin., long. corp. 5 lin.

Head yellow; a large irregular roundish black spot on the vertex, enclosing the ocelli, and sometimes marked with two small yellow spots in front; it throws off a small projection in front, and a broader one behind; and there is also a black spot on each side of the latter, extending to the back of the head, which is wholly black, as well as the antennæ. There is also a rather large black spot behind each eye. Mesothorax above and middle of pectus black; prothorax, V-spot, two large impressed spots behind, sometimes scarcely separated from it, scutellum, postscutellum, and lines running from the scutellum to the front and back of the base of the fore wings, all yellow. Abdomen yellow, with a black band at the base of all the segments above; saws, and two short streaks at their base, black; legs yellow, intermediate tarsi blackish above; hind femora at the extremity above, and hind tibiæ and tarsi (except more or less of the base of the former), black. Wings hyaline, faintly tinged with yellow towards the extremities; nervures fuscous; lanceolate cell with straight cross nervure.

This species is more like a *Tenthredo* than a *Macrophya* in shape, colour, and markings, but has the long hind coxæ of the latter genus.

*Hab.* Japan.*a, b.* ♀. (Types)

North Japan.

R. Fortune.

B. *North-American Species.*79. *Macrophya abbotii*.

(Plate X. fig. 14.)

Exp. al. 12-13 lin., long. corp. 6 lin.

Black; abdomen with segments 3-5 rufous, both above and below; also segment 2 beneath, and the hind coxæ beneath, in the male only. Legs piceous or rufescent; wings violaceous, with blackish nervures.

This species may possibly be identical with *Tenthredopsis atroviolaceus*, var. *cinctulus*, Nort., described from female examples only; but there is no trace of a white spot on the coxæ. Norton would probably have mentioned its absence, had it been absent in his specimens of *cinctulus*; for this spot is present in *atroviolaceus*, var. *tardus*, between which and the typical *atroviolaceus cinctulus* would be intermediate.

*Hab.* Georgia\*.

*a, b.* ♂ ♀. (Types.)

Georgia.

Probably from Abbot's collection.

### 80. *Macrophya pluricincta*.

*Macrophya pluricinctus*, *Nort. Proc. Bost. Soc.* ix. p. 118 (1862);  
*id. Trans. Amer. Ent. Soc.* i. p. 267, n. 2 (1867).

*Hab.* California.

### 81. *Macrophya epinota*.

*Allantus epinotus*, *Say, Bost. Journ.* i. p. 215, n. 1 (1835); *Nort. Bost. Journ.* vii. p. 257, n. 42 (1860).

*Macrophya epinotus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 268, n. 3 (1867).

*Hab.* United States.

### 82. *Macrophya pulchella*.

*Tenthredo* (*Allantus*) *pulchella*, *Klug, Berl. Mag.* viii. p. 121, n. 89 (1818).

*Macrophya pulchella*, *Nort. Proc. Bost. Soc.* ix. p. 118 (1862);  
*id. Trans. Amer. Ent. Soc.* i. p. 268, n. 4 (1867).

*Allantus flavolineatus*, *Nort. Bost. Journ.* vii. p. 259, n. 45 (1860).

*Hab.* United States.

*a, b.* ♀.

### 83. *Macrophya zoe*.

(Plate X. fig. 15.)

Exp. al. 7 lin., long. corp. 3 lin.

Black; face, collar, tegulæ, cenchri, and the greater part of the legs yellow, an interrupted white stripe on the sides of the pectus; anterior femora above, and the four posterior femora, except at the base, black; intermediate and hinder tibiæ black at the tips, the latter broadly so, and the tips of all the joints of the tarsi more or less black. Wings yellowish hyaline, clouded towards the tips; nervures piceous; a vitreous line running through the costal cell as far as the stigma; lanceolate cell subcontracted.

*Hab.* Hudson's Bay.

*a.* ♀. (Type.)

St. Martin's Falls, Albany River.

Dr. Barnston.

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\* Figured by Abbot, 'Drawings of Insects of Georgia' (MS. in the British Museum), xii. pl. lxii. fig. 3, with the remark, "Taken 12th May in pine-woods near Savannah River. Rare."

84. *Macrophya albifacies*.

(Plate X. fig. 18.)

Exp. al. 7 lin., long. corp. 3 lin.

Head and thorax black; face very pale yellow, with the tips of the mandibles black; a white spot on each side of the pectus; collar, scutellum, cenchri, and the four anterior legs yellow, the tips of the intermediate tibiæ and tarsi black; hind legs yellow, femora black beyond the middle, tibiæ black at base and tip, and base of first joint of tarsi and claws black. Abdomen with the three first segments and the saws black, the remainder rufous. Wings hyaline with rufous nervures; lanceolate cell subcontracted.

*Hab.* United States.*a. ♀.* (Type.)

New York.

E. Doubleday.

85. *Macrophya texana*.*Macrophya texana*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 52 (1880).*Hab.* Texas.86. *Macrophya annulipes*.*Macrophya annulipes*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 18 (1880).*Hab.* Nevada.87. *Macrophya lineata*.*Macrophya lineata*, *Nort. Trans. Amer. Ent. Soc.* i. p. 269, n. 5 (1867).*Hab.* North America.88. *Macrophya flavicoxæ*.*Allantus flavicoxæ*, *Nort. Bost. Journ.* vii. p. 258, n. 43 (1860).*Macrophya flavicoxæ*, *Nort. Proc. Bost. Soc.* ix. p. 118 (1862);  
*id. Trans. Amer. Ent. Soc.* i. p. 269, n. 6 (1867).*Hab.* United States.*a-h. ♂ ♀.*

New York.

E. Doubleday.

89. *Macrophya incerta*.*Allantus incertus*, *Nort. Bost. Journ.* vii. p. 258, n. 44 (1860).*Macrophya incertus*, *Nort. Proc. Bost. Soc.* ix. p. 118 (1862); *id. Trans. Amer. Ent. Soc.* i. p. 269, n. 7 (1867).*Hab.* North America.

90. *Macrophya pannosa*.

*Allantus pannosus*, *Say, Bost. Journ.* i. p. 217, n. 6 (1835).

*Macrophya pannosus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 270, n. 8 (1867).

*Hab.* United States.

91. *Macrophya proximata*.

*Macrophya proximata*, *Nort. Trans. Amer. Ent. Soc.* i. p. 270, n. 9 (1867).

*Hab.* Connecticut.

92. *Macrophya maura*.

*Macrophya maura*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 18 (1880).

*Hab.* Nevada.

93. *Macrophya externa*.

*Allantus externus*, *Say, West Quart. Rep.* ii. p. 72 (1823); *id. Bost. Journ.* vii. p. 257, n. 41 (1860); *id. Trans. Amer. Ent. Soc.* i. p. 271, n. 10 (1861).

*Hab.* North America.

94. *Macrophya jugosa*.

*Macrophya jugosa*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 18 (1880).

*Hab.* California.

95. *Macrophya tibiator*.

*Macrophya epinotus*, var. *b*, *Nort. Bost. Journ.* vii. p. 257, n. 42 (1860).

*Macrophya tibiator*, *Nort. Proc. Ent. Soc. Phil.* iii. p. 10, n. 20 (1864); *id. Trans. Amer. Ent. Soc.* i. p. 271, n. 11 (1867).

*Hab.* North America.

*a.* ♀.

New York.

E. Doubleday.

96. *Macrophya albomaculata*.

*Allantus albomaculatus*, *Nort. Bost. Journ.* vii. p. 256, n. 39 (1860); *id. Trans. Amer. Ent. Soc.* i. p. 272, n. 12 (1867).

*Hab.* North America.

*a, b.* ♂.

97. *Macrophya pumila*.

*Macrophya pumila*, *Nort. Trans. Amer. Ent. Soc.* i. p. 272, n. 13 (1867).

*Hab.* California, Texas.

*a, b.* ♂ ♀.

Texas.

Dr. Cresson.

98. *Macrophya fuliginea*.

*Macrophya fuligineus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 273, n. 14 (1867).

*Hab.* United States.

99. *Macrophya cassandra*.

(Plate X. fig. 13.)

Exp. al. 10 lin., long. corp. 4 lin.

Black, shining; a spot on each side of the clypeus, labrum, mandibles, palpi, anterior tibiæ in front, and cenchri whitish; four anterior tibiæ and tarsi reddish brown. Wings yellowish hyaline, clearer towards the base; lanceolate cell contracted.

*Hab.* United States.

*a.* ♀. (Type.)

New York.

E. Doubleday.

100. *Macrophya subviolacea*.

*Macrophya subviolacea*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 18 (1880).

*Hab.* California.

101. *Macrophya dejecta*.

*Allantus dejectus*, *Nort. Bost. Journ.* vii. p. 249, n. 27 (1860).

*Macrophya dejecta*, *Nort. Trans. Amer. Ent. Soc.* i. p. 273, n. 15 (1867).

*Hab.* New York.

102. *Macrophya contaminata*.

*Macrophya contaminata*, *Provancher, Nat. Canad.* x. p. 105 (1878).

*Hab.* Canada.

103. *Macrophya nigra*.

*Allantus niger*, *Nort. Bost. Journ.* vii. p. 239, n. 6 (1860).

*Macrophya niger*, *Nort. Trans. Amer. Ent. Soc.* i. p. 273, n. 16 (1867).

*Hab.* North America.

*a-e.* ♀.

104. *Macrophya oregona*.

*Macrophya oregona*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 19 (1880).

*Hab.* Oregon.

105. *Macrophya trisyllabus*.

*Allantus trisyllabus*, *Nort. Bost. Journ.* vii. p. 238, n. 5 (1860).

*Macrophya trisyllabus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 274, n. 17 (1867).

*Hab.* North America.

106. **Macrophya zonalis.**

*Macrophya zonalis*, *Nort. Proc. Ent. Soc. Phil.* iii. p. 11, n. 21 (1864); *id. Trans. Amer. Ent. Soc.* i. p. 274, n. 18 (1867).

*Hab.* Massachusetts.

107. **Macrophya californica.**

*Tenthredo californicus*, *Nort. Proc. Ent. Soc. Phil.* i. p. 198 (1862).

*Macrophya californicus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 275, n. 19 (1867).

*Hab.* California.

108. **Macrophya varia.**

*Allantus varius*, *Nort. Bost. Journ.* vii. p. 240, n. 8 (1860).

*Macrophya varius*, *Nort. Trans. Amer. Ent. Soc.* i. p. 275, n. 20 (1867).

*Hab.* United States.

a. ♀.

109. **Macrophya eurythmia.**

*Macrophya eurythmia*, *Nort. Trans. Amer. Ent. Soc.* i. p. 276, n. 21 (1867).

*Hab.* Hudson's Bay, Canada.

110. **Macrophya fascialis.**

*Macrophya fascialis*, *Nort. Trans. Amer. Ent. Soc.* i. p. 276, n. 22 (1867).

*Hab.* United States.

111. **Macrophya media.**

*Allantus bifasciatus*, *Say (nec Gmel.)*, *West. Quart. Rep.* ii. p. 72 (1823).

*Macrophya bifasciatus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 277, n. 23 (1867).

*Macrophya medius*, *Nort. Proc. Bost. Soc.* ix. p. 118 (1861).

*Hab.* United States.

a. ♀.

112. **Macrophya formosa.**

*Tenthredo (Allantus) formosa*, *Klug, Berl. Mag.* viii. p. 115, n. 82 (1818).

*Macrophya formosus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 277, n. 24 (1867).

*Allantus bicinctus*, *Nort. Bost. Journ.* vii. p. 241, n. 11 (1860).

*Hab.* United States.

a, b. ♂ ♀.

Georgia.

Probably from Abbot's collection.

c-e. ♀.



113. *Macrophya cestus*.

*Allantus cestus*, *Say, Bost. Journ.* i. p. 217, n. 5 (1835).

*Macrophya cestus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 277, n. 25 (1867).

*Hab.* Maine.

114. *Macrophya succincta*.

*Macrophya succincta*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 19 (1880).

*Hab.* Georgia, Texas.

115. *Macrophya intermedia*.

*Allantus intermedius*, *Nort. Bost. Journ.* vii. p. 242, n. 12 (1860).

*Macrophya intermedius*, *Nort. Trans. Amer. Ent. Soc.* i. p. 278, n. 26 (1867).

*Hab.* United States.

116. *Macrophya goniphora*.

*Allantus goniphorus*, *Say, Bost. Journ.* i. p. 215, n. 2 (1835).

*Macrophya goniphorus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 279, n. 27 (1867).

*Hab.* United States.

*a. ♀.*

117. *Macrophya trossula*.

*Allantus trosulus*, *Nort. Bost. Journ.* vii. p. 244, n. 18 (1860).

*Macrophya trosulus*, *Nort. Trans. Amer. Ent. Soc.* i. p. 279, n. 28 (1867).

*Hab.* Connecticut, Massachusetts.

118. *Macrophya fumatrix*.

*Macrophya fumator*, *Nort. Trans. Amer. Ent. Soc.* i. p. 279, n. 29 (1867).

*Hab.* California.

119. *Macrophya bicolorata*.

*Macrophya bicolorata*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 19 (1880).

*Hab.* California.

120. *Macrophya pulcherrima*.

(Plate X. fig. 19.)

Exp. al. 7 lin., long. corp.  $3\frac{1}{2}$  lin.

Black; clypeus, collar, tegulæ, scutellum, first segment of the abdomen above, and the greater part of the femora and tibiæ coral-red; coxæ black, their tips, trochanters, all the tarsi, mouth below the clypeus, and cenchri yellowish; hind femora and tibiæ broadly

black at the tips; head and thorax dull, closely punctured; abdomen smooth and shining. Wings yellowish hyaline, iridescent, with yellowish nervures; lanceolate cell with straight cross line.

Very distinct from every known species.

*Hab.* Florida.

*a.* ♂. (Type.)

St. John's Bluff.

R. Foster.

### *C. Indian Species.*

#### 121. *Macrophya* (?) *multicolor*.

*Allantus multicolor*, *Smith, Second Yarkand Miss.* p. 18 (1878).

*Hab.* Murree, Punjab Hills.

#### 122. *Macrophya opposita*.

*Macrophya opposita*, *Smith, Second Yarkand Miss.* p. 19 (1878).

*Hab.* Kashmir.

### 97. *PACHYPROTASIS*.

*Pachyprotasis*, *Hart. Blattw.* p. 295 (1837).

#### 1. *Pachyprotasis rapæ*.

*Tenthredo rapæ*, *Linn. Syst. Nat.* i. pt. 2, p. 926, n. 35 (1767).

*Tenthredo* (*Allantus*) *rapæ*, *Klug, Berl. Mag.* viii. p. 127, n. 96 (1818).

*Pachyprotasis rapæ*, *Costa, Faun. Nap., Tentr.* p. 84, pl. lxxxiii. fig. 6 (1859); *Thoms. Hym. Scand.* i. p. 248 (1871).

*Hab.* Europe.

*a-u.* ♂ ♀.

Britain.

J. F. Stephens.

*v-gg.* ♂ ♀.

Germany.

J. F. Ruthe.

*hh-nn.* ♂ ♀.

Munich.

H. Buchecker.

*oo-tt.* ♂ ♀.

Zurich.

H. Buchecker.

*uu, vv.* ♂ ♀.

Lägern Mountain, near Zurich.

H. Buchecker.

#### 2. *Pachyprotasis tenuis*.

*Pachyprotasis tenuis*, *Rudow, Stett. ent. Zeit.* xxxii. p. 392 (1871).

*Hab.* Harz.

#### 3. *Pachyprotasis scripta*.

*Tenthredo scripta et ochrogaster*, *Gmel. Syst. Nat.* i. pt. 5, p. 2668 (1789).

*Tenthredo* (*Allantus*) *simulans*, *Klug, Berl. Mag.* viii. p. 128, n. 97 (1818).

*Hab.* Europe.

4. *Pachyprotasis lævicollis*.

*Tenthredo lævicollis*, *Thoms. Hym. Scand.* i. p. 249, n. 2 (1871).

*Hab.* Sweden.

5. *Pachyprotasis antennata*.

*Tenthredo antennata*, *Klug, Berl. Mag.* viii. p. 129, n. 98 (1818).

*Pachyprotasis antennata*, *Thoms. Hym. Scand.* i. p. 250 (1871).

*Tenthredo duplex*, *St.-Farg. Mon. Tenth.* p. 87, n. 251 (1823).

*Hab.* Europe.

|  |          |                 |
|--|----------|-----------------|
| <i>a-f.</i> ♂ ♀.                           | Britain. | J. F. Stephens. |
| <i>g-m.</i> ♂ ♀. (As <i>P. simulans</i> .) | Britain. | J. F. Stephens. |
| <i>n-r.</i> ♂ ♀.                           | Germany. | J. F. Ruthe.    |
| <i>s-u.</i> ♀.                             | Munich.  | H. Buchecker.   |

6. *Pachyprotasis variegata*.

*Tenthredo* (Allantus) *variegata*, *Klug, Berl. Mag.* viii. p. 129, n. 99 (1818).

*Pachyprotasis variegata*, *Thoms. Hym. Scand.* i. p. 249 (1871).

*Hab.* Europe.

|                |          |                 |
|----------------|----------|-----------------|
| <i>a.</i> ♀.   | Britain. | J. F. Stephens. |
| <i>b.</i> ♀.   | Britain. |                 |
| <i>c.</i> ♀.   | Sweden.  |                 |
| <i>d-f.</i> ♀. | Munich.  | H. Buchecker.   |

7. *Pachyprotasis discolor*.

*Tenthredo* (Allantus) *discolor*, *Klug, Berl. Mag.* viii. p. 130, n. 100 (1818).

*Hab.* Europe.

|                 |         |               |
|-----------------|---------|---------------|
| <i>a.</i> ♂.    | Munich. | H. Buchecker. |
| <i>b, c.</i> ♂. | Zurich. | H. Buchecker. |

8. *Pachyprotasis* (?) *lugubris*.

*Tenthredo lugubris*, *St.-Farg. Mon. Tenth.* p. 101, n. 284 (1823).

*Hab.* Paris.

9. *Pachyprotasis nigronotata*.

*Pachyprotasis nigronotata*, *André, Spec. Hym.* i. p. 586 (1881).

*Hab.* Bavaria.

10. *Pachyprotasis formosa*.

*Pachyprotasis formosa*, *Schmied. Ent. Nachr.* vii. p. 214 (1881).

*Hab.* Thuringia.

11. *Pachyprotasis erratica*.

(Plate X. fig. 16.)

*Pachyprotasis erraticus*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 377.

Exp. al. 8 lin., long. corp. 4 lin.

Black; undersurface of antennæ, face, cheeks, a short oblique streak on the vertex behind and within each eye, a spot on each side of the front lobe of the thorax, tegulæ, scutellum, cenchri, a triangular spot at the base of the abdomen and the greater part of the legs and undersurface of the abdomen whitish or testaceous; third and fourth segments of the abdomen with a short white line on the hinder edge above. Pectus black, closely punctured, with two adjacent testaceous spots in the middle, and a white stripe on the sides, with a shorter white stripe running upwards at a right angle at both ends. All the legs with a black line above, even extending to the hind coxæ; hind tibiæ entirely black, except a short pale line towards the extremity beneath; hind tarsi wanting. Segments of the abdomen bordered with black in the middle beneath. Wings hyaline, with piceous nervures; lower part of the stigma reddish.

*Hab.* Japan.*a.* ♂. (Type.)

Hakodadi.

H. Whitely, Esq.

12. *Pachyprotasis volatilis*.

(Plate X. fig. 17.)

*Tenthredo volatilis*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 383.

Exp. al. 10 lin., long. corp. 4 lin.

Deep black, shining; labrum, palpi, a large spot on the hind coxæ, hind trochanters, joints 2-5 of the tarsi (except the extremity of the second), and the claws white; scutellum, and the anterior legs and intermediate tibiæ and tarsi in front, whitish. Wings hyaline, with blackish or piceous nervures; costa and stigma black; extremity of the costal cell whitish within.

*Hab.* Japan.*a.* ♀. (Type.)

Hiogo.

G. Lewis, Esq.

13. *Pachyprotasis omega*.*Macrophya (Pachyprotasis) omega*, *Nort. Trans. Amer. Ent. Soc.* i. p. 280 (1867).*Hab.* North America\*.*a-i.* ♂ ♀.St. Martin's Falls, Albany River,  
Hudson's Bay.

Dr. Barnston.

\* One specimen has only one inner cell on the right hind wing instead of two. The left hind wing is too much damaged to ascertain if this aberration occurs on that side also.

14. *Pachyprotasis delta*.

*Pachyprotasis delta*, *Provancher, Nat. Canad.* x. p. 108 (1878).

*Hab.* Canada.

15. *Pachyprotasis versicolor*.

(Plate X. fig. 20.)

Exp. al. 8–9 lin., long. corp. 4 lin.

Black, a black line at the base of the clypeus; face, a border extending all round the eyes, except a small space behind, two small dots above the antennæ, the sixth and more or less of the seventh joint, and the basal joint beneath, white or yellowish. Collar, tegulæ, V-spot, scutellum, postscutellum, cenchri, a spot on the last segment of the abdomen above, a large double spot in the middle of the pectus, an oblique band extending upwards to the shoulders, a large spot on the side of the base of the abdomen, the outside of the four hinder coxæ, and a row of transverse spots on the sides of the abdomen beneath, often extending across from side to side, all white; second segment of the abdomen above and the greater part of the legs red. Hind coxæ marked with a black V-shaped spot on the outside; hind femora whitish above at the base. Wings hyaline, with brown nervures.

*Hab.* North India.

*a, b.* ♀. (Types.)

North India.

Capt. Boyes.

98. *PERINEURA*.

*Perineura*, *Hart. Blattw.* p. 303 (1837).

*Synairema*, *Hart. Blattw.* p. 314 (1837); *Thoms. Hym. Scand.* i. p. 263 (1871).

1. *Perineura rubi*.

*Allantus rubi*, *Panz. Faun. Germ.* Heft 91, pl. xiv. (1805).

*Tenthredo* (*Allantus*) *rubi*, *Klug, Berl. Mag.* viii. p. 50, n. 11 (1818).

*Tenthredo lividiventris et elegantula*, *Fallén, Vetensk. Handl.* xxix. pp. 57 & 117 (1808).

*Tenthredo* (*Allantus*) *delicatula*, *Klug, Berl. Mag.* viii. p. 188, n. 129 (1818).

*Tenthredo rubi et delicatula*, *Hart. Blattw.* pp. 303 & 314 (1837).

*Synairema rubi*, *Thoms. Hym. Scand.* i. p. 264 (1871).

*Hab.* Europe.

*a.* ♀.  
*b.* ♀.

Germany.  
Sweden.

J. F. Ruthe.

2. *Perineura cylindrica*.

*Perineura cylindrica*, *Rudow, Stett. ent. Zeit.* xxxii. p. 390 (1871).

*Hab.* Harz.

3. *Perineura dualis*.

*Perineura dualis*, Först. *Stett. ent. Zeit.* v. p. 287 (1844).

*Hab.* Aix-la-Chapelle.

4. *Perineura alpina*.

*Synairema alpina*, Bremi, *Stett. ent. Zeit.* x. p. 93 (1849).

*Hab.* Switzerland.

5. *Perineura anomala*.

*Tenthredo anomala*, Eversm. *Bull. Mosc.* xx. pt. 1, p. 43 (1847).

*Hab.* Kasan.

## 99. EBOLIA.

*Ebolia*, Costa, *Faun. Nap., Tentr.* p. 105 (1859).

1. *Ebolia floricola*.

*Ebolia floricola*, Costa, *Faun. Nap., Tentr.* p. 105, pl. lxxvi. fig. 5 (1859).

*Hab.* Naples.

## 100. TENTHREDOPSIS.

*Tenthredopsis*, Costa, *Faun. Nap., Tentr.* p. 98 (1859).

*Perineura*, p., Thoms. *Opusc. Ent.* ii. p. 300 (1870); *id.* *Hym. Scand.* i. p. 264 (1871), *nec* Hart. (1837).

1. *Tenthredopsis nassata*.

*Tenthredo nassata*, Linn. *Syst. Nat.* i. pt. 2, p. 926, n. 38 (1767); *Panz. Faun. Germ.* Heft 65, pl. ii. (1799); *St.-Farg. Mon. Tenthr.* p. 84, n. 246 (1823); *Steph. Ill. Brit. Ent., Mand.* vii. p. 75 (1835).

? *Tenthredo litterata*, Fourcr. *Ent. Par.* ii. p. 370, n. 21 (1785).

*Tenthredo* (*instabilis*) *nassata*, p., Klug, *Berl. Mag.* viii. p. 197 (1818).

*Tenthredopsis nassata*, Costa, *Faun. Nap., Tentr.* p. 104, pl. lxxv. fig. 5 (1859).

*Perineura nassata* ♂, Thoms. *Hym. Scand.* i. p. 265 (1871).

*Hab.* Europe.

*a-l.* ♂ ♀.

*m-s.* ♂ ♀.

*t-aa.* ♂ ♀.

Britain.

Germany.

Munich.

J. F. Stephens.

J. F. Ruthe.

H. Buchecker.

2. *Tenthredopsis auriculata*.

*Perineura auriculata*, Thoms. *Opusc. Ent.* ii. p. 301 (1870); *id.* *Hym. Scand.* i. p. 267 (1871).

*Hab.* Sweden.

3. *Tenthredopsis tilia*.

*Allantus tilia*, *Panz. Faun. Germ.* Heft 91, pl. xiii. (1805).

*Tenthredo dorsivittatus*, *Cameron, Trans. Ent. Soc. Lond.* 1881, p. 570.

*Hab.* Central Europe.

|              |          |                 |
|--------------|----------|-----------------|
| <i>a.</i> ♀. | Britain. | J. F. Stephens. |
|--------------|----------|-----------------|

4. *Tenthredopsis tessellata*.

*Tenthredo* (*Allantus*) *tessellata*, *Klug, Berl. Mag.* viii. p. 200, n. 144 (1818).

*Tenthredo melanorhæa* (*nec Gmel.*) et *dorsalis* (*nec Spin.*), *St.-Farg. Mon. Tenth.* pp. 85 & 87 (1823); *id. Faun. Franç.* pp. 29 & 30, pl. iv. figs. 4 & 7.

*Tenthredo melanorhœa*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 75 (1835).

*Perineura sordida*, *Thoms. (nec Klug), Hym. Scand.* i. p. 266 (1871).

*Tenthredopsis inornatus*, *Cameron, Trans. Ent. Soc. Lond.* 1881, p. 571.

*Hab.* Europe.

|                  |          |                 |
|------------------|----------|-----------------|
| <i>a-f.</i> ♂ ♀. | Britain. | J. F. Stephens. |
| <i>g-l.</i> ♂ ♀. | Munich.  | H. Buchecker.   |
| <i>m.</i> ♀.     | Germany. | J. F. Ruthe.    |

5. *Tenthredopsis sordida*.

*Tenthredo* (*Allantus*) *sordida*, *Klug, Berl. Mag.* viii. p. 199, n. 143 (1818).

*Tenthredopsis sordida* et *quadriguttata*, *Costa, Faun. Nap., Tentr.* pp. 99 & 101, pl. lxxv. fig. 6 (1859).

*Hab.* Europe.

|                  |         |               |
|------------------|---------|---------------|
| <i>a-h.</i> ♂ ♀. | Munich. | H. Buchecker. |
| <i>i-m.</i> ♂ ♀. | Zurich. | H. Buchecker. |
| <i>n.</i> ♂.     | Sicily. | H. Buchecker. |

6. *Tenthredopsis saundersii*.

*Tenthredopsis saundersi*, *Cameron, Trans. Ent. Soc. Lond.* 1881, p. 570.

*Hab.* Britain.

7. *Tenthredopsis nigriceps*.

*Tenthredopsis nigriceps*, *Cameron, Trans. Ent. Soc. Lond.* 1881, p. 569.

*Hab.* Scotland.

8. *Tenthredopsis albomaculata*.

*Tenthredopsis albomaculata*, *Cameron, Trans. Ent. Soc. Lond.* 1881, p. 569.

*Hab.* Rannoch.

9. *Tenthredopsis alpina*.

*Perineura alpina*, *Thoms. Hym. Scand.* i. p. 267 (1871).

*Tenthredopsis lividiventris*, *Cameron, Trans. Ent. Soc. Lond.* 1881, p. 568.

*Hab.* Scotland.

10. *Tenthredopsis fulviceps*.

(Plate XVI. figs. 8 ♀, 9 ♂.)

*Tenthredo fulviceps*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 75 (1835).

*Exp.* al. 8 lin., long. corp. 4 lin.

Black; head dull luteous, first two joints of antennæ black, the remainder dark brown above, lighter below; mouth and scutellar spots yellow; clypeus with a dusky spot in the middle above; abdomen with segments 3-6 red; four front legs testaceous, hind legs dark brown, the coxæ and upper surface of the femora being darkest. Wings hyaline, with piceous nervures and stigma, the latter pale at the base.

*Male* (?) with the abdomen black at base and tip, testaceous below and at the sides, the testaceous segments bordered behind with black transverse streaks, and with a black longitudinal shade in the middle; legs testaceous, hind femora dusky.

*Hab.* Britain.

a. ♀. (Type.)

Bristol.

J. F. Stephens.

b. ♂ (?).

Britain.

J. F. Stephens.

11. *Tenthredopsis tristis*.

(Plate XVI. figs. 10 ♂, 11 ♀.)

*Tenthredo tristis*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 78 (1835).

*Exp.* al. 8 lin., long. corp. 5 lin.

Black; antennæ brown above, reddish beneath; mouth, orbits, collar, scutellar spots, and hinder edge of the first segment of the abdomen narrowly yellow; sides of the abdomen reddish, most broadly on segments 3 and 4; undersurface tinged with reddish in the middle; legs testaceous, hind femora blackish. Wings hyaline, with brown nervures; stigma pale at base.

The *male* has the sides and undersurface of the abdomen more uniformly reddish, and the blackish suffusion of the upper surface is



broadest towards the extremity, although the extreme apex is pale in the middle.

*Hab.* Central Europe.

|                           |          |                 |
|---------------------------|----------|-----------------|
| <i>a-c.</i> ♂ ♀. (Types.) | Britain. | J. F. Stephens. |
| <i>d.</i> ♂.              | Munich.  | H. Buchecker.   |

### 12. *Tenthredopsis excisa*.

*Perineura excisa*, *Thoms. Opusc. Ent.* ii. p. 301 (1870); *id. Hym. Scand.* i. p. 267 (1871).

*Hab.* Sweden.

### 13. *Tenthredopsis histrio*

*Tenthredo* (*Allantus*) *histrio*, *Klug, Berl. Mag.* viii. p. 201 (1818).  
*Tenthredo ornata*, *St.-Farg. Mon. Tenth.* p. 77, n. 228 (1823); *id. Faun. Franç.* p. 21, n. 17, pl. iii. fig. 5.  
 ♂. *Tenthredo neglecta*, *St.-Farg. Mon. Tenth.* p. 77, n. 229 (1823).  
*Tenthredopsis tessellata*, *Costa (nec Klug), Faun. Nap., Tentr.* p. 98, pl. lxxvi. figs. 3, 4 (1859).

*Hab.* Europe.

|                  |          |                 |
|------------------|----------|-----------------|
| <i>a-c.</i> ♂ ♀. | Britain. | J. F. Stephens. |
| <i>d-o.</i> ♂ ♀. | Germany. | J. F. Ruthe.    |
| <i>p-s.</i> ♂ ♀. | Munich.  | H. Buchecker.   |
| <i>t-w.</i> ♂ ♀. | Zurich.  | H. Buchecker.   |

### 14. *Tenthredopsis lusitanica*.

*Perineura lusitanica*, *André, Spec. Hym.* i. p. 424 (1881).

*Hab.* Portugal.

### 15. *Tenthredopsis dorsalis*.

*Tenthredo dorsalis*, *Spin. Ins. Lig.* ii. p. 17, pl. iv. fig. 14 (1808).  
*Tenthredopsis dorsatus*, *Cameron, Trans. Ent. Soc. Lond.* 1881, p. 573.

*Hab.* Italy, Spain.

### 16. *Tenthredopsis scutellaris*.

*Tenthredo scutellaris*, *Fabr. Syst. Piez.* p. 39, n. 51 (1804); *Panz. Faun. Germ.* Heft 98, pl. xii. (1809).  
*Tenthredo (instabilis) scutellaris*, p., *Klug, Berl. Mag.* viii. p. 198 (1818).  
*Tenthredopsis picticeps*, *Cameron, Trans. Ent. Soc. Lond.* 1881, p. 568.

*Hab.* Europe.

|                 |          |               |
|-----------------|----------|---------------|
| <i>a-d.</i> ♀.  | Germany. | J. F. Ruthe.  |
| <i>e-g.</i> ♀.  | Munich.  | H. Buchecker. |
| <i>h, i.</i> ♀. | Zurich.  | H. Buchecker. |
| <i>k.</i> ♀.    | Bohemia. | Prof. Kheil.  |
| <i>l.</i> ♀.    | Sicily.  | H. Buchecker. |

17. *Tenthredopsis stigma*.

*Tenthredopsis stigma*, *Fabr. Ent. Syst. Suppl.* p. 215 (1798); *St.-Farg. Mon. Tenth.* p. 76, n. 226 (1823).

*Hab.* Europe.

|                 |          |               |
|-----------------|----------|---------------|
| <i>a, b.</i> ♀. | Germany. | J. F. Ruthe.  |
| <i>c, d.</i> ♀. | Munich.  | H. Buchecker. |
| <i>e.</i> ♀.    | Zurich.  | H. Buchecker. |

18. *Tenthredopsis flavomaculata*.

*Tenthredopsis flavomaculatus*, *Cameron, Trans. Ent. Soc. Lond.* 1881, p. 567.

*Hab.* Britain.

|              |          |                 |
|--------------|----------|-----------------|
| <i>a.</i> ♀. | Britain. | J. F. Stephens. |
|--------------|----------|-----------------|

19. *Tenthredopsis ambigua*.

*Tenthredo* (Allantus) *ambigua*, *Klug, Berl. Mag.* viii. p. 202 (1818).  
*Tenthredo scutellaris et pavida*, *St.-Farg. (nec Fabr.), Mon. Tenth.* p. 76 (1823).

*Tenthredo ambigua, scutellaris et pavida*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 76 (1835).

*Tenthredopsis ambigua*, *Costa, Faun. Nap., Tentr.* p. 100, pl. lxxvi. figs. 1, 2 (1859).

*Perineura brevispina*, *Thoms. Opusc. Ent.* ii. p. 301 (1870); *id. Hym. Scand.* i. p. 266 (1871).

*Tenthredopsis nigricollis*, *Cameron, Trans. Ent. Soc. Lond.* 1881, p. 567.

*Hab.* Britain.

|   |          |                 |
|---|----------|-----------------|
| <i>a-e.</i> ♂ ♀. (As <i>T. ambigua</i> .)     | Britain. | J. F. Stephens. |
| <i>f-v.</i> ♂ ♀. (As <i>T. nassata</i> .)     | Britain. | J. F. Stephens. |
| <i>w-z.</i> ♂ ♀. (As <i>T. scutellaris</i> .) | Britain. | J. F. Stephens. |
| <i>aa-hh.</i> ♂ ♀.                            | Germany. | J. F. Ruthe.    |
| <i>ii.</i> ♀.                                 | Munich.  | H. Buchecker.   |
| <i>kk.</i> ♀.                                 | Zurich.  | H. Buchecker.   |

20. *Tenthredopsis nigrionotata*.

*Tenthredopsis nigrionotatus*, *Cameron, Trans. Ent. Soc. Lond.* 1881, p. 566.

*Tenthredo ignobilis*, *Steph. (nec Klug), Ill. Brit. Ent., Mand.* vii. p. 79 (1835).

*Hab.* Britain.

|                |          |                 |
|----------------|----------|-----------------|
| <i>a-c.</i> ♀. | Britain. | J. F. Stephens. |
|----------------|----------|-----------------|

21. *Tenthredopsis neglecta*.

(Plate XVI. figs. 12 ♀, 13 ♂.)

*Tenthredo neglecta et spreta*, *Steph. (nec St.-Farg.), Ill. Brit. Ent., Mand.* vii. p. 77 (1835).

Exp. al. 8 lin., long. corp. 5 lin.

Black; mouth white; clypeus sometimes marked with black, orbits and scutellar spots yellow, tegulæ pitchy; abdomen black above, with three or four of the middle segments red, more or less broadly marked with black in the middle; undersurface and legs red; tip of abdomen black, hind femora dark brown.

The *male* varies in the amount of paler colouring on the abdomen, but nearly always has the extremity black beneath.

*Hab.* Europe.

|   |          |                 |
|---|----------|-----------------|
| <i>a-n.</i> ♂ ♀. (Types.)               | Britain. | J. F. Stephens. |
| <i>o, p.</i> ♂. (As <i>T. spreta.</i> ) | Britain. | J. F. Stephens. |
| <i>q-t.</i> ♂ ♀.                        | Germany. | J. F. Ruthe.    |
| <i>u, v.</i> ♀.                         | Munich.  | H. Buchecker.   |

## 22. *Tenthredopsis fuscicornis.*

*Tenthredo fuscicornis*, *Esch. Entomogr.* p. 90 (1862).

*Hab.* Kamtchatka.

## 23. *Tenthredopsis irritans.*

(Plate X. fig. 11.)

*Macrophya irritans*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 380.

Exp. al. 12 lin., long. corp. 6 lin.

Head and thorax black; antennæ, collar, tegulæ, and cenchri reddish yellow, anterior margin of the clypeus and lower parts of the mouth whitish; legs whitish (except the base of the hind coxæ, which is black), the hinder legs shading into reddish yellow, and the upper part of the hind femora into blackish. Abdomen shining reddish yellow; segments 3-7 marked with two dusky spots on the back, which grow larger and darker on each succeeding segment, those on segment 7 being nearly black, and extending almost over the upper surface; abdomen paler beneath. Wings hyaline, iridescent, with brownish-yellow nervures; costa and stigma yellowish.

*Hab.* Japan.

|                      |              |             |
|----------------------|--------------|-------------|
| <i>a.</i> ♂. (Type.) | North Japan. | R. Fortune. |
|----------------------|--------------|-------------|

## 24. *Tenthredopsis nigropectus.*

(Plate XI. fig. 1.)

Exp. al. 1 poll. 1 lin., long. corp. 6 lin.

Head, thorax, and pectus deep black; antennæ ferruginous; clypeus, labrum, a broad stripe behind the eyes, tapering to a point towards the base of the mandibles, and a very narrow thread on the inside yellowish; scapulæ and tegulæ yellow, the former throwing off two small projections on each shoulder in the form of a horse-

shoe; scutellum very large, square, and yellowish, with a reddish-brown spot on each side; abdomen shining mahogany colour, segments 3-7 stained with black on the back, and segment 9 yellowish; legs pale yellow, base of coxæ black, hind legs darker. Wings yellowish hyaline, with dusky nervures; costa and stigma yellow; hind wings with a submarginal nervure parallel to the hind margin.

*Hab.* Japan.

*a.* ♂. (Type of species.)      Tokio.      Montague Fenton, Esq.

## 25. *Tenthredopsis atrovioleacea*.

*Allantus atrovioleaceus*, *Nort. Bost. Journ.* vii. p. 255, n. 36 (1860).

*Tenthredo atrovioleaceus*, *Nort. Proc. Bost. Soc.* ix. p. 120 (1861); *id.*

*Trans. Amer. Ent. Soc.* ii. p. 239, n. 33 (1869).

*Tenthredo atrovioleaceus*, varr. *cinctulus et tardus*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 240 (1869).

*Hab.* North America.

|                                     |                |               |
|-------------------------------------|----------------|---------------|
| <i>a.</i> ♀.                        | New York.      | E. Doubleday. |
| <i>b.</i> ♀.                        | United States. |               |
| <i>c.</i> ♀. (Var. <i>tardus</i> .) | United States. |               |

## 26. *Tenthredopsis attracta*.

*Tenthredo attractus*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 240, n. 34 (1869).

*Hab.* English River.

## 27. *Tenthredopsis semilutea*.

*Tenthredo semiluteus*, *Nort. Proc. Bost. Soc.* ix. p. 121 (1862); *id.*

*Trans. Amer. Ent. Soc.* ii. p. 240, n. 35 (1869).

*Hab.* United States.

## 28. *Tenthredopsis confusa*.

*Tenthredo confusus*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 241, n. 36 (1869).

*Hab.* United States.

## 29. *Tenthredopsis 14-punctata*.

*Tenthredo 14-punctatus*, *Nort. Proc. Ent. Soc. Phil.* i. p. 143 (1862);

*id. Trans. Amer. Ent. Soc.* ii. p. 241, n. 37 (1869).

*Hab.* Virginia.

## 101. TENTHREDO.

*Tenthredo*, Linn. *Syst. Nat.* i. p. 555 (1758); *Hart. Blattw.* p. 303 (1837), *restr.*

A. *Europæo-Asiatic Species, including Japan and North China.*1. *Tenthredo aucupariæ*.

*Tenthredo* (*Allantus*) *aucupariæ*, *Klug, Berl. Mag.* viii. p. 212, n. 168 (1818).

*Tenthredo solitaria* (a), *Schrank, Enum. Ins. Austr.* p. 327 (1781); *Fall. Vet.-Akad. Handl.* xxix. p. 64 (1808).

*Perineura gibbosa*, *Thoms. Opusc. Ent.* ii. p. 302, n. 5 (1870).

*Perineura solitaria*, *Thoms. Hym. Scand.* i. p. 268 (1871).

*Tenthredo juvenilis*, *St.-Farg. Mon. Tenth.* p. 99, n. 279 (1823); *id. Faun. Franç.* p. 40, n. 59, pl. vi. fig. 5\*.

*Hab.* Europe.

|                    |          |                 |
|--------------------|----------|-----------------|
| <i>a-h.</i> ♂ ♀.   | Britain. | J. F. Stephens. |
| <i>i-l.</i> ♂ ♀.   | Britain. |                 |
| <i>m-z.</i> ♂ ♀.   | Germany. | J. F. Ruthe.    |
| <i>aa-ee.</i> ♂ ♀. | Munich.  | H. Buchecker.   |

2. *Tenthredo fulvitarsis*.

*Perineura fulvitarsis*, *André, Spec. Hym.* i. p. 418 (1881).

*Hab.* South France.

3. *Tenthredo fulvipes*.

*Tenthredo fulvipes*, *Scop. Ent. Carn.* p. 278, n. 728 (1763).

*Tenthredo lateralis*, *Fabr. Iter Norw.* p. 33 (1779); *Panz. Faun. Germ.* Heft 88, pl. xviii. (1805).

*Perineura lateralis*, *Thoms. Hym. Scand.* i. p. 268 (1871).

*Tenthredo* (*Allantus*) *lateralis*, *Klug, Berl. Mag.* viii. p. 212, n. 167 (1818).

? *Tenthredo rufipes*, *Fourcr. Ent. Par.* ii. p. 372, n. 27 (1785).

? *Tenthredo subfusca*, *St.-Farg. Mon. Tenth.* p. 132, n. 403 (1823).

*Hab.* Europe.

|                   |          |                 |
|-------------------|----------|-----------------|
| <i>a-h.</i> ♂ ♀.  | Britain. | J. F. Stephens. |
| <i>i-l.</i> ♂ ♀.  | Germany. | J. F. Ruthe.    |
| <i>m-q.</i> ♂ ♀.  | Munich.  | H. Buchecker.   |
| <i>r, s.</i> ♂ ♀. | Zurich.  | H. Buchecker.   |
| <i>t, u.</i> ♂ ♀. | Sweden.  |                 |
| <i>v.</i> ♂.      | Europe.  |                 |

\* *St.-Fargeau* represents this species with the lanceolate cell contracted; but as his figure is evidently inaccurate, and does not agree with his own description, I have no hesitation in identifying it with *Klug's* insect.

4. *Tenthredo pinguis*.

*Tenthredo* (Allantus) *pinguis*, *Klug, Berl. Mag.* viii. p. 211, n. 165 (1818).

*Hab.* Switzerland.

5. *Tenthredo nivosa*.

*Tenthredo* (Allantus) *nivosa*, *Klug, Berl. Mag.* viii. p. 210, n. 163 (1818).

*Hab.* Hungary.

6. *Tenthredo hungarica*.

*Tenthredo* (Allantus) *hungarica*, *Klug, Berl. Mag.* viii. p. 209, n. 161 (1818).

*Hab.* Hungary.

7. *Tenthredo moscovita*.

*Perineura* *moscovita*, *André, Spec. Hym.* i. p. 430 (1881).

*Hab.* Moscow.

8. *Tenthredo lactiflua*.

*Tenthredo* (Allantus) *lactiflua*, *Klug, Berl. Mag.* viii. p. 209, n. 160 (1818).

*Tenthredo* *lactiflua*, *Hart. Blattw.* p. 305, pl. v. fig. 43 (neurulation) (1837).

? *Tenthredo* *angusta*, *Gmel. Syst. Nat.* i. pt. v. p. 2667, n. 124 (1789).

*Hab.* Germany.

|                  |          |               |
|------------------|----------|---------------|
| <i>a.</i> ♀.     | Germany. | Dr. Klug.     |
| <i>b-f.</i> ♂ ♀. | Germany. | J. F. Ruthe.  |
| <i>g-i.</i> ♀.   | Munich.  | H. Buchecker. |
| <i>k.</i> ♀.     | Europe.  |               |

9. *Tenthredo mandibularis*.

*Tenthredo* *mandibularis*, *Fabr. Syst. Piez.* p. 34, n. 27 (1804); *Panz. Faun. Germ.* Heft 98, pl. ix. (1809).

*Tenthredo* (Allantus) *mandibularis*, *Klug, Berl. Mag.* viii. p. 208 n. 158 (1818).

*Hab.* Europe.

|                  |          |                 |
|------------------|----------|-----------------|
| <i>a-d.</i> ♂ ♀. | Britain. | J. F. Stephens. |
| <i>e, f.</i> ♂.  | Britain. | W. Shuckard.    |
| <i>g.</i> ♂.     | Britain. |                 |
| <i>h-l.</i> ♂ ♀. | Munich.  | H. Buchecker.   |

10. *Tenthredo procera*.

*Tenthredo* (Allantus) *procera*, *Klug, Berl. Mag.* viii. p. 207, n. 157 (1818).

*Hab.* Germany.

|              |         |               |
|--------------|---------|---------------|
| <i>a.</i> ♂. | Munich. | H. Buchecker. |
|--------------|---------|---------------|

11. *Tenthredo rufipes*.

*Tenthredo* (Allantus) *rufipes*, *Klug, Berl. Mag.* viii. p. 207, n. 156 (1818).

? *Tenthredo rufipes*, *St.-Farg. Mon. Tenth.* p. 81, n. 239 (1823).

*Tenthredo atra*, *Scop. (nec Linn.)*, *Ent. Carn.* p. 278, n. 729 (1763).

*Tenthredo scopoli*, *St.-Farg. Mon. Tenth.* p. 130, n. 397 (1823).

*Hab.* Germany.

12. *Tenthredo atra*.

*Tenthredo atra*, *Linn. Syst. Nat.* i. p. 557, n. 19 (1758); *id. Faun. Suec.* p. 392 (1761); *Panz. Faun. Germ.* Heft 52, pl. vii. (1798); *Costa, Faun. Nap., Tentr.* p. 92, pl. lxxv. figs. 1, 2 (1859); *Thoms. Hym. Scand.* i. p. 274 (1871).

*Tenthredo* (Allantus) *atra*, *Klug, Berl. Mag.* viii. p. 207, n. 255 (1818).

*Tenthredo pavid*, *Fabr. Syst. Ent.* p. 321, n. 19 (1775).

*Tenthredo fuscipes*, *Gmel. Syst. Nat.* i. pt. 5, p. 2667, n. 130 (1789).

? *Tenthredo thoracica*, *Fourcr. Ent. Par.* ii. p. 379, n. 39 (1785).

*Hab.* Europe.

|                   |                                       |                        |
|-------------------|---------------------------------------|------------------------|
| <i>a-f.</i> ♂ ♀.  | Britain.                              | J. F. Stephens.        |
| <i>g.</i> ♀.      | Easton Maudit, Northamp-<br>tonshire. | C. O. Waterhouse, Esq. |
| <i>h-u.</i> ♂ ♀.  | Germany.                              | J. F. Ruthe.           |
| <i>v-dd.</i> ♂ ♀. | Munich.                               | H. Buchecker.          |
| <i>ee-gg.</i> ♀.  | Zurich.                               | H. Buchecker.          |

13. *Tenthredo microcephala*.

*Tenthredo microcephala*, *St.-Farg. Mon. Tenth.* p. 80, n. 238 (1823); *id. Faun. Franç.* p. 25, n. 22, pl. iv. fig. 1; *Steph. Ill. Brit. Ent., Mand.* vii. p. 78 (1835).

*Tenthredo orbitalis*, *Dietr. Mitth. schw. ent. Ges.* ii. p. 354 (1868).

*Hab.* Central Europe.

|                  |          |                 |
|------------------|----------|-----------------|
| <i>a-e.</i> ♂ ♀. | Britain. | J. F. Stephens. |
| <i>f.</i> ♀.     | Britain. |                 |
| <i>g.</i> ♀.     | Germany. | J. F. Ruthe.    |
| <i>h, i.</i> ♀.  | Munich.  | H. Buchecker.   |
| <i>k.</i> ♀.     | Zurich.  | H. Buchecker.   |

14. *Tenthredo caliginosa*.

(Plate XVI. fig. 14.)

*Tenthredo caliginosa*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 75 (1835).

Exp. al. 11 lin., long. corp. 6 lin.

Black; face, inner orbits of eyes, and scutellar spots yellow; antennæ reddish beneath. Legs dull reddish; base of front femora, middle femora beneath, hind femora wholly, and hind tibiæ beneath blackish or dark reddish brown. Wings yellowish hyaline, with brown nervures; stigma brown, with the base pale.

The *male* has only the hind femora, tibiæ, and first joint of the

tarsi blackish; the hinder half of the femora and the greater part of the tibiæ are pale beneath; sometimes the hind femora only are blackish. (The two male specimens were placed with *T. microcephala*, but appear rather to belong to the present species.)

*Hab.* Europe.

|                           |          |                 |
|---------------------------|----------|-----------------|
| <i>a-f.</i> ♂ ♀. (Types.) | Britain. | J. F. Stephens. |
| <i>g-i.</i> ♀.            | Germany. | J. F. Ruthe.    |

### 15. *Tenthredo varia*.

*Tenthredo varia*, *Gmel. Syst. Nat.* i. pt. 5, p. 2665, n. 109 (1789).

*Tenthredo dimidiata*, *Fabr. Syst. Piez.* p. 42, n. 61 (1804).

*Tenthredo* (*instabilis*) *dimidiata*, *Klug, Berl. Mag.* viii. p. 198 (1818).

*Tenthredo dimidiata et analis*, *Steph. Ill. Brit. Ent., Mand.* vii. pp. 79, 80 (1835).

*Tenthredo instabilis*, var. *dimidiata*, *Costa, Faun. Nap., Tentr.* p. 103, pl. lxxv. fig. 4 (1859).

*Perineura nassata* ♀, p., *Thoms. Hym. Scand.* i. p. 265 (1871).

*Hab.* Europe.

|  |                               |          |                 |
|--|-------------------------------|----------|-----------------|
| <i>a-c.</i> ♀.                               | { ( <i>As T. dimidiata.</i> ) | Britain. | J. F. Stephens  |
| <i>d, e.</i> ♀.                              |                               | Britain. |                 |
| <i>f-m.</i> ♀. (Types of <i>T. analis</i> .) |                               | Britain. | J. F. Stephens. |
| <i>n-p.</i> ♀.                               |                               | Germany. | J. F. Ruthe.    |

### 16. *Tenthredo cordata*.

*Tenthredo*, &c., *Geoffr. Ins. Par.* ii. p. 278, n. 15 (1762).

*Tenthredo cordata*, *Fourcr. Ent. Par.* ii. p. 368, n. 15 (1785).

♂. *Tenthredo coquebertii*, *Klug, Berl. Mag.* viii. p. 202, n. 147 (1818).

*Tenthredo stigma*, *Coqueb. (nec Fabr.), Icones*, p. 15, pl. iii. fig. 5 (1799).

*Tenthredo coquebertii et femoralis*, *Steph. Ill. Brit. Ent., Mand.* vii. pp. 79, 80 (1835).

Var. *Tenthredo rufimana*, *Spin. Ann. Soc. Ent. Fr.* (2) i. p. 112 (1843).

*Hab.* Europe.

|   |          |                 |
|---|----------|-----------------|
| <i>a-d.</i> ♂ ♀. (Types of <i>T. femoralis</i> .) | Britain. | J. F. Stephens. |
| <i>e-g.</i> ♀.                                    | Britain. |                 |
| <i>h-p.</i> ♂ ♀.                                  | Germany. | J. F. Ruthe.    |

### 17. *Tenthredo melas*.

*Tenthredo melas*, *Rudow, Stett. ent. Zeit.* xxxii. p. 386 (1871).

*Hab.* Harz.

### 18. *Tenthredo caligator*.

*Tenthredo caligator*, *Eversm. Bull. Mosc.* xx. pt. 1, p. 47 (1847).

*Hab.* Astrachan.



19. *Tenthredo hybrida*.

*Tenthredo hybrida*, *Eversm. Bull. Mosc.* xx. pt. 1, p. 48 (1847).

*Hab.* Kirghis Steppes.

20. *Tenthredo pœcila*.

*Tenthredo pœcila*, *Eversm. Bull. Mosc.* xx. pt. 1, p. 48 (1847).

*Hab.* Ural.

21. *Tenthredo ischiadica*.

*Tenthredo ischiadica*, *Eversm. Bull. Mosc.* xx. pt. 1, p. 48 (1847).

*Hab.* Kasan.

22. *Tenthredo dispar*.

*Tenthredo* (Allantus) *dispar*, *Klug, Berl. Mag.* viii. p. 206, n. 154 (1818).

*Tenthredo solitaria*, var.  $\beta$ , *Schrank, Enum. Ins.* p. 326 (1781).

*Hab.* Europe.

|                  |                  |                 |
|------------------|------------------|-----------------|
| <i>a-d.</i> ♂ ♀. | Britain.         | J. F. Stephens. |
| <i>e, f.</i> ♀.  | Britain.         |                 |
| <i>g-i.</i> ♀.   | Germany.         | J. F. Ruthe.    |
| <i>k-n.</i> ♂ ♀. | Munich.          | H. Buchecker.   |
| <i>o.</i> ♀.     | Salair, Siberia. | Dr. Finsch.     |

23. *Tenthredo scotica*.

*Tenthredo scotica*, *Cam. Ent. M. Mag.* xviii. p. 193 (1882).

*Hab.* Dumfries.

24. *Tenthredo moniliata*.

*Tenthredo* (Allantus) *moniliata*, *Klug, Berl. Mag.* viii. p. 205, n. 153 (1818).

*Tenthredo moniliata*, *Thoms. Hym. Scand.* i. p. 275 (1871).

*Hab.* Germany.

|                  |          |              |
|------------------|----------|--------------|
| <i>a-c.</i> ♂ ♀. | Germany. | J. F. Ruthe. |
|------------------|----------|--------------|

25. *Tenthredo lachlaniana*.

*Tenthredo lachlaniana*, *Cam. Proc. N. H. Soc. Glasg.* iii. *App.* p. 12 (1878).

*Hab.* Central Europe.

|              |          |               |
|--------------|----------|---------------|
| <i>a.</i> ♀. | Britain. |               |
| <i>b.</i> ♀. | Munich.  | H. Buchecker. |

26. *Tenthredo plebeia*.

*Tenthredo* (Allantus) *plebeja*, *Klug, Berl. Mag.* viii. p. 205, n. 152 (1818).

*Tenthredo gracilis*, *St.-Farg. Mon. Tenth.* p. 79, n. 234 (1823); *id. Faun. Franç.* p. 23, n. 18, pl. iii. fig. 6.

*Hab.* Silesia.

27. *Tenthredo ignobilis*.

*Tenthredo* (Allantus) *ignobilis*, *Klug, Berl. Mag.* viii. p. 205, n. 151 (1818).

*Tenthredo ignobilis*, *Thoms. Hym. Scand.* i. p. 274 (1871).

*Hab.* Silesia.

28. *Tenthredo palustris*.

*Tenthredo* (Allantus) *palustris*, *Klug, Berl. Mag.* viii. p. 204, n. 150 (1818).

*Hab.* Friaul.

29. *Tenthredo trabeata*.

*Tenthredo* (Allantus) *trabeata*, *Klug, Berl. Mag.* viii. p. 204, n. 149 (1818).

*Hab.* Silesia ; Austria.

30. *Tenthredo insignis*.

*Tenthredo* (Allantus) *insignis*, *Klug, Berl. Mag.* viii. p. 203, n. 148 (1818).

*Hab.* Hungary.

31. *Tenthredo corcyrensis*.

*Perineura corcyrensis*, *André, Spec. Hym.* i. p. 417 (1881).

*Hab.* Corfu.

32. *Tenthredo sylvia*.

*Tenthredo leucostoma*, *Rudow (nec Krb.)*, *Stett. ent. Zeit.* xxxii. p. 389 (1871).

*Hab.* Thuringia.

33. *Tenthredo fasciata*.

*Tenthredo fasciata*, *Rudow, Stett. ent. Zeit.* xxxii. p. 386 (1871).

*Hab.* Harz.

34. *Tenthredo chlora*.

*Tenthredo chloros*, *Rudow, Stett. ent. Zeit.* xxxii. p. 387 (1871).

*Hab.* Europe, Siberia.

|                    |                                       |                        |
|--------------------|---------------------------------------|------------------------|
| <i>a-t.</i> ♂ ♀.   | Britain.                              | J. F. Stephens.        |
| <i>u.</i> ♀.       | Britain.                              |                        |
| <i>v.</i> ♀.       | Easton Maudit, North-<br>amptonshire. | C. O. Waterhouse, Esq. |
| <i>w.</i> ♀.       | Wales.                                | J. Foxcroft.           |
| <i>x-ff.</i> ♂ ♀.  | Germany.                              | J. F. Ruthe.           |
| <i>gg.</i> ♀.      | Bohemia.                              | Prof. Kheil.           |
| <i>hh-uu.</i> ♂ ♀. | Munich.                               | H. Buchecker.          |
| <i>vv.</i> ♀.      | Zurich.                               | H. Buchecker.          |
| <i>ww.</i> ♂.      | Uto Mountain, near Zurich.            | H. Buchecker.          |
| <i>xx.</i> ♀.      | Engadine.                             | H. Buchecker.          |
| <i>yy.</i> ♀.      | Salair, Siberia.                      | Dr. Finsch.            |

35. *Tenthredo explanata*.

*Tenthredo explanata*, Rudow, *Stett. ent. Zeit.* xxxii. p. 388 (1871).

*Hab.* Harz.

36. *Tenthredo seesana*.

*Tenthredo seesana*, Rudow, *Stett. ent. Zeit.* xxxii. p. 388 (1871).

*Hab.* Harz.

37. *Tenthredo punctulata*.

*Tenthredo* (Allantus) *punctulata*, Klug, *Berl. Mag.* viii. p. 195, n. 139 (1818).

*Tenthredo punctulata*, Costa, *Faun. Nap., Tentr.* p. 96, pl. lxxiv. fig. 4 (1859).

*Perineura punctulata*, Thoms. *Hym. Scand.* i. p. 270 (1871).

*Hab.* Europe.

a-k. ♂ ♀.  
l, m. ♂ ♀.

Britain.  
Europe.

J. F. Stephens.

38. *Tenthredo idriensis*.

*Tenthredo idriensis*, Giraud, *Verh. z.-b. Wien*, vii. p. 182 (1857).

*Hab.* Idria, Carniola.

39. *Tenthredo viridis*.

*Tenthredo viridis*, Linn. *Syst. Nat.* i. p. 557, n. 20 (1758); *Faun. Suec.* p. 392 (1761).

*Perineura viridis*, Thoms. *Hym. Scand.* i. p. 269 (1871).

*Tenthredo* (Allantus) *picta*, Klug, *Berl. Mag.* viii. p. 195, n. 140 (1818).

*Tenthredo breviuscula*, Costa, *Faun. Nap., Tentr.* p. 96, pl. lxxiv. fig. 6 (1859).

*Hab.* Europe.

a-f. ♂ ♀.  
g-i. ♂ ♀.  
k. ♀.  
l-r. ♂ ♀.  
s-u. ♂ ♀.  
v. ♀.

Britain.  
Britain.  
Bohemia.  
Germany.  
Munich.  
Zurich.

J. F. Stephens.

Prof. Kheil.

J. F. Ruthe.

H. Buchecker.

H. Buchecker.

40. *Tenthredo viridescens*.

*Tenthredo*, *mesomela*, Scop. (nec Linn.) *Ent. Carn.* p. 276 (1763).

*Tenthredo viridescens*, Fourcr. *Ent. Par.* ii. p. 377, n. 41 (1785).

*Tenthredo viridis*, Panz. (nec Linn.) *Faun. Germ.* Heft 64, pl. ii. (1799).

*Tenthredo interrupta*, Fabr. *Syst. Piez.* p. 40, n. 54 (1804).

*Tenthredo* (Allantus) *scalaris*, Klug, *Berl. Mag.* viii. p. 194, n. 138 (1818).

*Tenthredo scalaris*, Costa, *Faun. Nap., Tentr.* p. 94, pl. lxxiv. figs. 1-3 (1859).

*Perineura scalaris*, Thoms. *Hym. Scand.* i. p. 269 (1871).

*Hab.* Europe; North America.

|                  |  |                 |
|------------------|--|-----------------|
| <i>a-c.</i> ♂ ♀. | Britain.   | J. F. Stephens. |
| <i>d-f.</i> ♂ ♀. | Britain.   |                 |
| <i>g-l.</i> ♂ ♀. | Munich.  | H. Buchecker.   |
| <i>m.</i> ♀.     | Bohemia.   | Prof. Kheil.    |
| <i>n-s.</i> ♂ ♀. | St. Martin's Falls,<br>Albany River, Hudson's Bay. | Dr. Barnston.   |

41. *Tenthredo alneti*.

*Tenthredo alneti*, *Schrank, Enum. Ins. Austr.* p. 335, n. 673 (1781).

*Hab.* Austria.

42. *Tenthredo olivacea*.

*Tenthredo* (Allantus) *olivacea*, *Klug, Berl. Mag.* viii. p. 193, n. 137 (1818).

*Tenthredo olivacea*, *Thoms. Hym. Scand.* i. p. 273 (1871).

*Hab.* Europe.

|                   |                  |                 |
|-------------------|------------------|-----------------|
| <i>a, b.</i> ♀.   | Britain.         | J. F. Stephens. |
| <i>c, d.</i> ♂ ♀. | Britain.         |                 |
| <i>e.</i> ♀.      | Aix-la-Chapelle. | Prof. Förster.  |
| <i>f.</i> ♀.      | Munich.          | H. Buchecker.   |

43. *Tenthredo intermedia*.

*Tenthredo* (Allantus) *intermedia*, *Klug, Berl. Mag.* viii. p. 193, n. 136 (1818).

*Hab.* Germany.

|              |          |           |
|--------------|----------|-----------|
| <i>a.</i> ♂. | Germany. | Dr. Klug. |
|--------------|----------|-----------|

44. *Tenthredo pictipes*.

*Tenthredo pictipes*, *Förster, Verh. Ver. Rheinl.* vii. p. 287 (1850).

*Hab.* Aix-la-Chapelle.

45. *Tenthredo semiannularis*.

*Tenthredo semiannularis*, *De Vill. Linn. Ent.* iii. p. 117, n. 111 (1789).

*Hab.* Europe.

46. *Tenthredo obsoleta*.

*Tenthredo* (Allantus) *obsoleta*, *Klug, Berl. Mag.* viii. p. 192, n. 135 (1818).

*Tenthredo obsoleta*, *Thoms. Hym. Scand.* i. p. 272 (1871).

*Hab.* Europe, Siberia

|                 |                  |               |
|-----------------|------------------|---------------|
| <i>a, b.</i> ♂. | Zürich.          | H. Buchecker. |
| <i>c.</i> ♂.    | Salair, Siberia. | Dr. Finsch.   |

47. *Tenthredo arctica*.

*Tenthredo arctica*, *Thoms. Hym. Scand.* i. p. 273, n. 5 (1871).

*Hab.* Lapland.

48. *Tenthredo mesomelas*.

*Tenthredo mesomela*, *Linn. Syst. Nat.* i. p. 557, n. 16 (1758); *Faun. Suec.* p. 392 (1761); *Thoms. Hym. Scand.* i. p. 272 (1871).

*Tenthredo* (*Allantus*) *viridis*, *Klug, Berl. Mag.* viii. p. 191, n. 133 (1818).

*Tenthredo viridis*, *Costa, Faun. Nap., Tentr.* p. 93, pl. lxxiv. fig. 5 (1859).

*Tenthredo hebraica*, *Fourcr. Ent. Par.* ii. p. 363, n. 1 (1785).

*Tenthredo scalaris*, *Thoms. Opusc. Ent.* ii. p. 272 (1870).

*Tenthredo rosæ*, *Scop. Ent. Carn.* p. 275, n. 722 (1763).

*Tenthredo annularis*, *De Vill. Linn. Ent.* iii. p. 117, n. 110 (1789).

*Tenthredo marginata*, *Christ, Insekten*, p. 429 (1791).

*Hab.* Europe, Siberia.

|                     |                  |                 |
|---------------------|------------------|-----------------|
| <i>a-r.</i> ♂ ♀.    | Britain.         | J. F. Stephens. |
| <i>s.</i> ♀.        | Britain.         |                 |
| <i>t, u.</i> ♂ ♀.   | Germany.         | J. F. Ruthe.    |
| <i>v-bb.</i> ♂ ♀.   | Munich.          | H. Buchecker.   |
| <i>cc-ff.</i> ♂ ♀.  | Zurich.          | H. Buchecker.   |
| <i>gg.</i> ♀.       | Albania.         |                 |
| <i>hh, ii.</i> ♂ ♀. | Europe.          |                 |
| <i>kk.</i> ♀.       | Trans-Baikal.    |                 |
| <i>ll, mm.</i> ♀.   | Salair, Siberia. | Dr. Finsch.     |

49. *Tenthredo vestita*.

*Tenthredo vestita*, *André, Spec. Hym.* i. p. 596 (1881).

*Hab.* Caucasus.

50. *Tenthredo cincta*.

*Tenthredo cincta*, *Linn. Syst. Nat.* i. p. 557, n. 22 (1758); *Faun. Suec.* p. 393 (1761); *Panz. Faun. Germ.* Heft 64, pl. viii. (1799).

*Tenthredo bicincta*, *Linn. Syst. Nat.* i. pt. 2, p. 925, n. 31 (1767); *Thoms. Hym. Scand.* i. p. 271 (1871).

*Tenthredo* (*Allantus*) *bicincta*, *Klug, Berl. Mag.* viii. p. 191, n. 134 (1818).

*Tenthredo semicincta*, *Schrank, Enum. Ins. Austr.* p. 331, n. 665 (1781).

*Tenthredo mesomelas*, *Gmel. Syst. Nat.* i. pt. 5, p. 2660, n. 22 (1789).

*Hab.* Europe.

|                  |                                     |                        |
|------------------|-------------------------------------|------------------------|
| <i>a-k.</i> ♂ ♀. | Britain.                            | J. F. Stephens.        |
| <i>l.</i> ♀.     | Britain.                            |                        |
| <i>m-o.</i> ♂ ♀. | Easton Maudit,<br>Northamptonshire. | C. O. Waterhouse, Esq. |
| <i>p.</i> ♀.     | Mons.                               |                        |
| <i>q-v.</i> ♂ ♀. | Munich.                             | H. Buchecker.          |
| <i>w-z.</i> ♂ ♀. | Zurich.                             | H. Buchecker.          |

51. *Tenthredo maculata*.

*Tenthredo maculata et unifasciata*, *Fourcr. Ent. Par.* ii. p. 365 (1785).

*Tenthredo zonata*, *Panz. Faun. Germ.* Heft 64, pl. ix. (1799).

*Tenthredo* (*Allantus*) *zonata*, *Klug, Berl. Mag.* viii. p. 190, n. 133 (1818).

*Tenthredo equestris*, *Panz. Faun. Germ.* Heft 107, pl. vi. (1809).

*Tenthredo cincta*, *Schäff. (nec Linn.) Icones*, pl. lvi. fig. 2 (1769).

*Tenthredo succincta*, *Don. Brit. Ins.* xiii. pl. ccccxli. fig. 2 (1808).

*Tenthredo latizona*, *St.-Farg. Mon. Tenth.* p. 74, n. 223 (1823);

*id. Faun. Franç., Hym.* p. 29, n. 7, pl. iii. fig. 4.

♀ *Tenthredo subulata et mucronata*, *Gmel. Syst. Nat.* i. pt. v. p. 2665, nn. 107 & 108 (1789).

*Hab.* Europe.

|                   |              |                    |
|-------------------|--------------|--------------------|
| <i>a-i.</i> ♂ ♀.  | Britain.     | J. F. Stephens.    |
| <i>k, l.</i> ♂ ♀. | Near London. | Rev. H. S. Taylor. |
| <i>m.</i> ♀.      | Wales.       | J. Foxcroft.       |
| <i>n.</i> ♂.      | Britain.     | T. C. Heysham.     |
| <i>o-q.</i> ♂ ♀.  | Germany.     | J. F. Ruthe.       |
| <i>r-v.</i> ♂ ♀.  | Munich.      | H. Buchecker.      |
| <i>w, x.</i> ♀.   | Zurich.      | H. Buchecker.      |
| <i>y-aa.</i> ♂ ♀. | Europe.      |                    |

52. *Tenthredo caucasica*.

*Tenthredo caucasica*, *Eversm. Bull. Mosc.* xx. pt. 1, p. 53 (1847).

*Hab.* Astrachan, Caucasus.

53. *Tenthredo flava*.

*Tenthredo flava*, *Scop. Ent. Carn.* p. 279 (1763).

*Tenthredo flavicornis*, *Fabr. Spec. Ins.* i. p. 410, n. 20 (1781); *Costa,*

*Faun. Nap., Tentr.* p. 86, pl. lxxvii. fig. 1 (1859); *Thoms. Hym.*

*Scand.* i. p. 271 (1871).

*Tenthredo* (*Allantus*) *flavicornis*, *Klug, Berl. Mag.* viii. p. 189, n. 132 (1818).

*Tenthredo pœcilochoa*, *Schrank, Enum. Ins. Austr.* p. 324 (1781).

*Tenthredo luteicornis*, *Fabr. Mant. Ins.* i. 254, n. 22 (1787).

*Hab.* Europe.

|                  |          |               |
|------------------|----------|---------------|
| <i>a.</i> ♀.     | Britain. |               |
| <i>b-g.</i> ♂ ♀. | Germany. | J. F. Ruthe.  |
| <i>h-m.</i> ♂ ♀. | Munich.  | H. Buchecker. |
| <i>n-p.</i> ♂ ♀. | Zurich.  | H. Buchecker. |

54. *Tenthredo luteipennis*.

*Tenthredo luteipennis*, *Eversm. Bull. Mosc.* xx. pt. 1, p. 54 (1847).

*Hab.* Astrachan.

55. *Tenthredo menetriesii*.

*Tenthredo fallax*, *Mocs. (nec Smith), Term. füzetek*, iv. p. 274 (1880);

*André, Spec. Hym.* i. p. 452 (1881).

*Hab.* Caucasus.

56. *Tenthredo pallicornis*.

*Tenthredo pallicornis*, *Fabr. Ent. Syst. Suppl.* p. 215 (1798).

*Tenthredo* (Allantus) *pallicornis*, *Klug, Berl. Mag.* viii. p. 188, n. 130 (1818).

*Hab.* Germany; Switzerland.

a. ♀.

Zurich.

H. Buchecker.

57. *Tenthredo albicornis*.

*Tenthredo albicornis*, *Fabr. Spec. Ins.* i. p. 412, n. 31 (1781); *Panz. Faun. Germ.* Heft 5, pl. xxi. (1793); *Costa, Faun. Nap., Tentr.* p. 87, pl. lxxvii. fig. 4 (1859).

*Tenthredo* (Allantus) *albicornis*, *Klug, Berl. Mag.* viii. p. 187, n. 128 (1818).

*Tenthredo dealbata*, *Gmel. Syst. Nat.* i. pt. v. p. 2666, n. 111 (1789).

*Tenthredo nebulosa*, *St.-Farg. Mon. Tenth.* p. 80, n. 136 (1823).

*Hab.* Europe.

a-g. ♂ ♀.

Munich.

H. Buchecker.

h, i. ♂.

Zurich.

H. Buchecker.

k, l. ♀.

Europe.

58. *Tenthredo maura*.

*Tenthredo maura*, *Fabr. Ent. Syst.* ii. p. 116, n. 44 (1793); *Thoms. Hym. Scand.* i. p. 276 (1871).

*Tenthredo fagi*, *Panz. Faun. Germ.* Heft 52, pl. xiv. (1798); *Costa, Faun. Nap., Tentr.* p. 88, pl. lxxvii. fig. 3 (1859).

*Tenthredo* (Allantus) *fagi*, *Klug, Berl. Mag.* viii. p. 186, n. 126 (1818).

*Hab.* Europe.

a-d. ♂ ♀.

Britain.

J. F. Stephens.

e-h. ♂ ♀.

Britain.

i, k. ♀.

Germany.

J. F. Ruthe.

l-o. ♂.

Munich.

H. Buchecker.

59. *Tenthredo pellucida*.

*Tenthredo* (Allantus) *pellucida*, *Klug, Berl. Mag.* viii. p. 187, n. 127 (1818).

*Hab.* Königsberg.

60. *Tenthredo limbata*.

*Tenthredo* (Allantus) *limbata*, *Klug, Berl. Mag.* viii. p. 186, n. 125 (1818).

? *Tenthredo limbata*, *Thoms. Hym. Scand.* i. p. 276 (1871).

*Hab.* Istria; Norway.

61. *Tenthredo bipunctula*.

*Tenthredo* (Allantus) *bipunctula*, *Klug, Berl. Mag.* viii. p. 185, n. 124 (1818).

*Hab.* Silesia.

62. *Tenthredo velox*.

*Tenthredo velox*, *Fabr. Ent. Syst. Suppl.* p. 216 (1798).

*Tenthredo* (Allantus) *velox*, *Klug, Berl. Mag.* viii. p. 185, n. 123 (1818).

*Tenthredo velox*, var. *nigrolineata*, *Cam. Scot. Nat.* iv. p. 11 (1877).

*Hab.* Central Europe..

*a, b.* ♀.

Britain.

J. F. Stephens.

63. *Tenthredo livida*.

*Tenthredo livida*, *Linn. Syst. Nat.* i. p. 557, n. 23 (1758); *Faun. Suec.* p. 393 (1761); *Thoms. Hym. Scand.* i. p. 275 (1871).

*Tenthredo* (Allantus) *livida*, *Klug, Berl. Mag.* viii. p. 183, n. 122 (1818).

*Tenthredo carpini*, *Panz. Faun. Germ.* Heft 71, pl. ix. (1799).

*Tenthredo albicornis*, *Fourcr. Ent. Par.* ii. p. 371, n. 22 (1785).

*Tenthredo annularis*, *Schrank, Beitr. z. Nat.* p. 85, § 44 (1776).

*Hab.* Europe.

*a, b.* ♂ ♀. (As *T. bipunctulus*.) Britain.

J. F. Stephens.

*c, d.* ♂. (As *T. colon*.) Britain.

J. F. Stephens.

*e-bb.* ♂ ♀. (As *T. aterrimus*.) Britain.

J. F. Stephens.

*cc-ff.* ♂ ♀.

Britain.

*gg-ii.* ♀.

Easton Maudit,

C. O. Waterhouse, Esq.

Northamptonshire.

*kk.* ♀.

France.

*ll-tt.* ♂ ♀.

Germany.

J. F. Ruthe.

*uu-ddd.* ♂ ♀.

Munich.

H. Buchecker.

*eee-ggg.* ♂ ♀.

Zurich.

H. Buchecker.

*hhh, iii.* ♂.

Uto Mountain,  
near Zurich.

H. Buchecker.

*kkk.* ♀.

Europe.

64. *Tenthredo impura*.

*Tenthredo impura*, *Scop. Ent. Carn.* p. 280, n. 737 (1763).

*Hab.* Carniola.

65. *Tenthredo albopunctata*.

*Tenthredo albopunctata*, *Tischb. Stett. ent. Zeit.* xiii. p. 138 (1852).

*Hab.* Hungary.



66. *Tenthredo tischbeini*.

*Tenthredo hungarica*, *Tischb. (nec Klug) Stett. ent. Zeit.* xiii. p. 138 (1852).

*Tenthredo tischbeini*, *Mocs. Term. közlem.* xiv. p. 41 (1876).

*Perineura tischbeini*, *André, Spec. Hym.* i. p. 422 (1882).

*Hab.* Hungary.

67. *Tenthredo annuligera*.

*Tenthredo annuligera*, *Eversm. Bull. Mosc.* xx. pt. 1, p. 50 (1847).

*Hab.* Sarepta.

68. *Tenthredo colon*.

*Tenthredo (Allantus) colon*, *Klug, Berl. Mag.* viii. p. 182, n. 121 (1818).

*Tenthredo colon*, *Costa, Faun. Nap., Tentr.* p. 89, pl. lxxvii. figs. 1 & 2 (1859); *Thoms. Hym. Scand.* i. p. 276 (1871).

*Hab.* Europe, Siberia.

a, b. ♂ ♀. (As *T. coryli*.)

c-l. ♂ ♀.

m. ♀.

Britain.

Munich.

Salair, Siberia.

J. F. Stephens.

H. Buchecker.

Dr. Finsch.

69. *Tenthredo rudowi*.

*Tenthredo rudowi*, *André, Spec. Hym.* i. p. 446 (1881).

*Hab.* Germany.

70. *Tenthredo sobrina*.

*Tenthredo sobrina*, *Eversm. Bull. Mosc.* xx. pt. 1, p. 56 (1847).

*Hab.* South Russia.

71. *Tenthredo pœcilopus*.

*Tenthredo pœcilopus*, *Mocs. Term. füzetek*, iv. p. 274 (1880); *André, Spec. Hym.* i. p. 455 (1881).

*Hab.* Austria.

72. *Tenthredo rubecula*.

*Tenthredo rubecula*, *Eversm. Bull. Mosc.* xx. pt. 1, p. 56 (1847).

*Hab.* Casan.

73. *Tenthredo solitaria*.

*Tenthredo solitaria*, *Scop. Ent. Carn.* p. 281 (1763).

*Tenthredo coryli*, *Panz. Faun. Germ.* Heft 71, pl. viii. (1799).

*Tenthredo* (Allantus) *coryli*, *Klug, Berl. Mag.* viii. p. 182, n. 120 (1818).

*Var.* *Tenthredo albicolor*, *Klug, loc. cit.* (1818).

*Hab.* Europe.

*a-c.* ♀.

Germany.

J. F. Ruthe.

*d-g.* ♂ ♀.

Munich.

H. Buchecker.

*h-l.* ♂ ♀.

Zurich.

H. Buchecker.

#### 74. *Tenthredo biguttata*.

*Tenthredo biguttata*, *Hart. Blattw.* p. 313, n. 58 (1837).

*Hab.* Harz.

#### 75. *Tenthredo balteata*.

*Tenthredo* (Allantus) *balteata*, *Klug, Berl. Mag.* viii. p. 181, n. 119 (1818).

*Tenthredo balteata*, *Thoms. Hym. Scand.* i. p. 277 (1871).

*Tenthredo soror*, *Zett. Ins. Lapp.* p. 343, n. 19 (1838).

*Hab.* Europe.

*a-e.* ♂ ♀.

Britain.

J. F. Stephens.

*f.* ♀.

Britain.

#### 76. *Tenthredo gynandromorpha*.

*Tenthredo gynandromorpha*, *Rudow, Stett. ent. Zeit.* xxxii. p. 390 (1871).

*Hab.* Harz.

#### 77. *Tenthredo picticornis*.

*Tenthredo picticornis*, *Mocs. Term. füzetek*, iv. p. 272 (1880).

*Perineura picticornis*, *André, Spec. Hym.* i. p. 423 (1881).

*Hab.* Dobrudscha.

#### 78. *Tenthredo balkana*.

*Tenthredo balkana*, *Mocs. Term. füzetek*, iv. p. 272 (1880).

*Perineura balkana*, *André, Spec. Hym.* i. p. 421 (1881).

*Hab.* Bulgaria.

#### 79. *Tenthredo labiata*.

*Tenthredo labiata*, *St.-Farg. Mon. Tenth.* p. 78, n. 231 (1823).

*Hab.* Paris.

#### 80. *Tenthredo obscura*.

*Allantus obscurus*, *Panz. Faun. Germ.* Heft 91, pl. xix. (1805).

*Hab.* Germany.

81. *Tenthredo silensis*.

*Tenthredo silensis*, *Costa, Faun. Nap., Tentr.* p. 90, pl. lxxvii. figs. 5, 6 (1859).

*Hab.* Italy.

82. *Tenthredo conspicua*.

*Tenthredo conspicua*, *Klug, Berl. Mag.* viii. p. 180, n. 117 (1818).

*Hab.* Europe.

|                  |         |               |
|------------------|---------|---------------|
| <i>a-c.</i> ♂ ♀. | Munich. | H. Buchecker. |
| <i>d.</i> ♀.     | Zurich. | H. Buchecker. |

83. *Tenthredo rufipinnis*.

*Tenthredo rufipennis*, *Fabr. Ent. Syst.* ii. p. 116, n. 45 (1793).

*Tenthredo rufiventris*, *Panz. Faun. Germ.* Heft 65, pl. vi. (1799); *Fabr. Syst. Piez.* p. 33, n. 20 (1804); *Thoms. Hym. Scand.* i. p. 277 (1871).

*Tenthredo* (*Allantus*) *rufiventris*, *Klug, Berl. Mag.* viii. p. 180, n. 118 (1818).

*Hab.* Europe.

|                  |                                     |                        |
|------------------|-------------------------------------|------------------------|
| <i>a-k.</i> ♂ ♀. | Britain.                            | J. F. Stephens.        |
| <i>l-o.</i> ♂ ♀. | Britain.                            |                        |
| <i>p.</i> ♀.     | Easton Maudit,<br>Northamptonshire. | C. O. Waterhouse, Esq. |
| <i>q.</i> ♀.     | Germany.                            | J. F. Ruthe.           |
| <i>r.</i> ♀.     | Munich.                             | H. Buchecker.          |
| <i>s.</i> ♀.     | Zurich.                             | H. Buchecker.          |
| <i>t.</i> ♀.     | Italy.                              | W. E. Leach.           |
| <i>u.</i> ♀.     | Europe.                             |                        |

84. *Tenthredo albonotata*.

*Allantus albonotatus*, *Brullé, Exp. Morée*, iii. 1, pt. 2, p. 869, pl. lii. fig. 11 (1832).

*Perineura albonotata*, *André, Spec. Hym.* i. p. 426 (1881).

*Tenthredo propinqua*, *Mocs. Term. füzetek*, iv. p. 274 (1880).

*Hab.* Greece, Syria.

85. *Tenthredo fulva*.

*Tenthredo* (*Allantus*) *fulva*, *Klug, Berl. Mag.* viii. p. 189, n. 131 (1818).

*Tenthredo fulva*, *André, Spec. Hym.* p. 463, pl. xxi. fig. 2 (1881).

*Tenthredo eversmanni*, *Ball. Bull. Mosc.* xlii. pt. 1, p. 445 (1869).

*Hab.* Russia; Northern Asia.

a-d. ♂ ♀.  
e. ♀.  
f. ♀.

Angara.  
Trans-Baikal.  
Amoor\*.

### 86. *Tenthredo benthini*.

*Tenthredo benthini*, *Rudow, Stett. ent. Zeit.* xxxii. p. 389 (1871).  
*Tenthredo basimacula*, *Mocs. Term. füzetek*, iv. p. 273 (1880).

*Hab.* Brussa.

### 87. *Tenthredo albopicta*.

*Tenthredo albopicta*, *Puls, Ann. Soc. Ent. Belg.* xiii. p. 151 (1870).

*Hab.* Transcaucasia.

### 88. *Tenthredo purpurea*.

*Tenthredo purpurea*, *Puls, Ann. Soc. Ent. Belg.* xiii. p. 151 (1870).

*Hab.* Transcaucasia.

### 89. *Tenthredo nigratarsis*.

*Tenthredo nigratarsis*, *Puls, Ann. Soc. Ent. Belg.* xiii. p. 152 (1870).

*Hab.* Transcaucasia.

### 90. *Tenthredo finschi*.

(Plate XVI. fig. 5.)

*Exp. al.* 13 lin., *long. corp.*  $5\frac{1}{2}$  lin.

Olive-yellow (perhaps somewhat faded?) beneath, and varied with black above. Vertex entirely black, as far as the antennæ, except a very narrow line within the eyes; antennæ short, black; palpi and tips of mandibles reddish brown; mesothorax black above; V-spot, hinder borders, and all the scutellar spots pale; sides of pectus marked with two slender black lines, connected above, and a shorter one below. Abdomen pale, with a black band on each segment, broad in the middle and tapering at each side; in front of the points are some more obscure blackish marks. All the femora with a black line above; four front tibiæ with a brown line; hind tibiæ and tarsi darker brown, with pale spurs. Wings hyaline, slightly clouded towards the tips; nervures brown, stigma reddish brown.

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\* The late Mr. F. Smith regarded this species as identical with his *T. erratica*, from which it differs in wanting the black spots on the thorax; the face and the spot on the hind coxæ are more distinctly yellow. The amount of black on the apical half of the abdomen, as also the distinctness of the dusky tip to the fore wings, varies slightly in different specimens. There are also more or less distinct blackish lines at the base of the first two segments of the abdomen. One specimen has a reddish spot on the pleura; another a shining reddish line within the eyes. In the male, the pectus, abdomen, and base of the coxæ are of the same tawny colour as the rest of the insect.

Allied to *T. pallicornis*, from which its black antennæ will at once distinguish it. It much resembles *Macrophya* (?) *nigropicta*, Smith, from Japan (*ante*, p. 269); but the legs are differently coloured, the head and thorax are darker above, and there is no black spot in the middle of the pectus.

*Hab.* Siberia.

*a.* ♀. (Type.)

Salair.

Dr. Finsch.

### 91. *Tenthredo sibirica*.

*Allantus sibiricus*, *Kriechb. Verh. z.-b. Wien*, xix. p. 590 (1869).

*Tenthredo spectabilis*, *Mocs. Tijdschr. Ent.* xxi. p. 199 (1878).

*Hab.* Siberia.

*a-e.* ♂ ♀.

Siberia.

### 92. *Tenthredo prospera*.

*Tenthredo prospera*, *Erichs. Middend. Reise*, ii. pt. 1, p. 62 (1851).

*Hab.* Siberia.

### 93. *Tenthredo scita*.

*Tenthredo scita*, *Erichs. Middend. Reise*, ii. pt. 1, p. 63 (1851).

*Hab.* Siberia.

### 94. *Tenthredo adusta*.

(Plate XI. fig. 8.)

*Tenthredo adusta*, *Motsch. Bull. Mosc.* xxxix. p. 181 (1866).

*Tenthredo erratica*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 381.

*Exp.* al. 1 poll. 5 lin., long. corp. 8 lin.

Shining rufo-testaceous; a spot on the vertex around the ocelli, behind which are two deep depressions, lined with black, extending quite to the back of the head. Thorax with black spots on the frontal and lateral lobes; apical half of the abdomen black, both above and below. Face, a line in front of the four front coxæ, and a large lateral spot at the base of the hind coxæ testaceous; pectus wholly black; four front coxæ black at the base. Wings yellowish hyaline, with piceous nervures; costa and stigma yellow; fore wings dusky at the tips.

Motschulsky only mentions one spot on the thorax; otherwise his description agrees with this species. Smith states that the male has black antennæ, except the two basal joints; but no such specimen exists in the British Museum, and the remark would probably apply better to the male of *T. xanthotarsis*. The Siberian specimens of *erratica*, alluded to by Smith, appear to belong to *T. fulva*, Klug.

*Hab.* Japan.

*a.* ♀. (Type of *T. erratica*.)

Hakodadi.

H. Whitely, Esq.

95. *Tenthredo xanthotarsis*.

(Plate XI. fig. 4.)

*Tenthredo xanthotarsus*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 467.

Exp. al. 1 poll. 6 lin., long. corp. 8 lin.

Head, thorax, and pectus reddish; abdomen and legs more yellowish, shining; head below the antennæ yellow, punctured; antennæ (except the first two joints), eyes, ocelli, a small spot on each side of the pectus, the four last segments of the abdomen above and below, and a line above the hind femora black. Wings yellowish hyaline, with yellow costa and stigma, and fuscous nervures; tip of fore wings clouded.

*Hab.* Japan.*a.* ♀. (Type.)

Hakodadi.

H. Whitely, Esq.

96. *Tenthredo providens*.

(Plate XI. fig. 6.)

*Tenthredo providens*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 382.

Exp. al. 1 poll. 5 lin., long. corp. 7 lin.

Black; face, collar, scutellum and postscutellum, and an oval spot on the hind coxæ yellow; more or less of the antennæ (especially above), cenchri, and the first three segments of the abdomen except the incisions, the sides of the fourth segment, and the legs testaceous; coxæ except at the extremity, the greater part of the hind femora, and the tips of the intermediate femora black. Wings dull hyaline, with fuscous nervures, and the costa and stigma yellow; the tip of the fore wings dark brown, with a violet iridescence.

*Hab.* Japan.*a, b.* ♀. (Types.)

North Japan.

R. Fortune.

97. *Tenthredo fentoni*.

(Plate XI. fig. 2.)

Exp. al. 1 poll. 4 lin., long. corp.  $6\frac{1}{2}$  lin.

Closely resembles *T. providens* in size and general appearance, but more slender. Head black; clypeus deeply incised and very hairy, and as well as labrum ivory-white; mandibles dirty yellow; cheeks and a stripe at the back of the head to opposite the inner border of the eyes dull ferruginous; antennæ brown, the two basal joints dull ferruginous beneath; thorax black, edges of scapulæ and tegulæ dull ferruginous; postscutellum, cenchri, and a line at the base of the abdomen dull testaceous; abdomen shining purplish black, whitish testaceous beneath and at the sides as far as the fifth

segment, and with a stripe formed of three connected spots on the back of segments 2-4. Legs testaceous yellow; coxæ, and hind femora and tibiæ, except at the base, black. Wings yellowish hyaline, with piceous nervures; tip deep brown; costa and stigma yellow.

*Hab.* Japan.

*a.* ♀. (Type.)

Tokio.

Montague Fenton, Esq.

### 98. *Tenthredo hilaris*.

(Plate XI. fig. 7.)

*Tenthredo hilaris*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 382.

Exp. al. 1 poll. 4 lin., long. corp. 7 lin.

Shining black; face, collar, cenchri, pleura (narrowly), and sides of abdomen testaceous; legs of a deeper and more reddish shade; hind coxæ (tips excepted), tibiæ, and tarsi black, with a large yellowish-white spot at the base of the coxæ. Wings hyaline, iridescent, with dark brown nervures.

*Hab.* Japan.

*a.* ♀. (Type.)

North Japan.

R. Fortune.

### 99. *Tenthredo picta*.

*Tenthredo picta*, *Mostch. (nec Klug) Bull. Mosc.* xxxix. p. 182 (1866).

*Hab.* Japan.

### 100. *Tenthredo varipes*.

(Plate XI. fig. 5.)

Greenish yellow; antennæ black, the first joint yellow beneath; a large black spot on the vertex, including two small yellow spots in front; mesothorax and middle of abdomen and middle of pectus black; scutellum, four spots in front, two postscutelli, cenchri, and sides of abdomen of the ground-colour, the latter colour running into the black at the back of each segment. Legs greenish yellow, a black line running from the middle of the femora to the tips of the tibiæ; tips of tibiæ and of all the joints of the tarsi black. Wings hyaline, partly tinged with yellowish; costa and stigma yellow.

*Hab.* Japan.

*a.* ♀. (Type of species.)

Tokio.

Montague Fenton, Esq.

### 101. *Tenthredo xanthopus*.

(Plate XI. fig. 12.)

*Tenthredo xanthopus*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 467.

Exp. al. 1 in., long. corp. 5 lin.

Black; abdomen steel-blue; face, cheeks, space between the

antennæ, collar, tegulæ, a large stripe on the sides of the pectus, a narrower one behind, hind coxæ, scutellum, postscutellum, a triangle at the base of the abdomen, and a stripe down the middle above, whitish. Legs and undersurface of abdomen yellowish; tarsi ringed with black; a dark line on all the femora above and on the intermediate tibiæ; hind tibiæ and tarsi black. Wings hyaline, iridescent, with blackish nervures and stigma.

*Hab.* Japan?

*a.* ♀. (Type.)

Japan? or North India?

### 102. *Tenthredo eburneifrons*.

(Plate XI. fig. 3.)

*Exp. al.* 1 poll., long. corp. 6 lin.

Black; clypeus, joints 6–8 of the antennæ, labrum, mandibles (except the rust-coloured tips), a spot at the base of the hind coxæ, and another on the sides of the first segment of the abdomen ivory-white; tegulæ light brown. Abdomen with segments 5 and 6 reddish above, segment 7 above and 5 below stained with the same colour. Legs reddish, femora more or less black above; coxæ black, their tips and the trochanters dirty white. Wings hyaline, with brown nervures; costa yellowish; stigma dark brown.

Appears to be allied to *T. rudowi*, André.

*Hab.* Amoor.

*a.* ♀. (Type.)

Amoor.

### 103. *Tenthredo amurensis*.

(Plate XI. fig. 16.)

*Tenthredo amoorensis*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 466.

*Exp. al.* 7 lin., long. corp. 3 lin.

Black, shining; a circle extending nearly round the eyes, collar, tegulæ, and cenchri white; face and undersurface of the antennæ yellowish white. Abdomen luteous, except at the base and tip. Legs pale testaceous, coxæ black, trochanters whitish; base of intermediate femora, base and tip of hind femora, tip of hind tibiæ and claws black. Wings yellowish hyaline, with piceous nervures; costa yellow; stigma brown (except at the extremity), with a dark cloud beneath it crossing the whole fore wing to the inner margin before the hinder angle.

*Hab.* Amoor.

*a.* ♀. (Type.)

Amoor.



104. *Tenthredo trimaculata*.

(Plate XI. fig. 19.)

*Tenthredo trimaculata*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 467.

Exp. al. 13 lin., long. corp. 6 lin.

Dull luteous; antennæ from tip of fourth joint, a transverse stripe on which the ocelli are placed and an adjoining spot on the vertex behind, a large spot on the frontal lobe of the thorax, a curving spot on each side of the mesothorax, and the whole of the pectus (except the pleura), and a short line on each side, black. Thorax and pectus closely punctured; head very shining. Wings yellowish hyaline, costa and stigma yellowish, nervures mostly blackish; second submarginal cell with a black dot.

*Hab.* China.*a.* ♂. (Type.)

Shanghai.

R. Fortune.

105. *Tenthredo fortunii*.

(Plate XI. fig. 11.)

*Tenthredo obscura*, *Cameron (nec Panz.), Trans. Ent. Soc. Lond.* 1876, p. 469.

Exp. al. 12½ lin., long. corp. 7 lin.

Pale olive; antennæ with joints 2-5 brown, apical joint black, joint 3 curved, half as long again as 4th; ocelli black. Abdomen dilated at the extremity, the segments narrowly edged behind with blackish, more broadly so towards the tips. Legs with a dusky line on all the tibiæ, the four hinder tarsi, and the base of the hind femora. Wings yellowish hyaline, with blackish nervures, and yellow costa and stigma.

*Hab.* China.*a.* ♀. (Type.)

Shanghai.

R. Fortune.

106. *Tenthredo flavobalteata*.

(Plate XI. fig. 17.)

*Tenthredo flavobalteata*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 469.

Exp. al. 1 poll. 2 lin., long. corp. 6 lin.

Black; two basal joints of antennæ, face, collar, tegulæ, cenchri, triangle at base of abdomen, segments 3 and 4 of abdomen, and legs testaceous or pale yellow; four hinder coxæ at base, middle femora above, hind femora, tips of four hinder tibiæ and of the intermediate and hind tarsi (except the first joint, which is reddish towards the base) black. Wings yellowish hyaline, with piceous

nervures and yellow costa and stigma; an irregular cloud towards the tips of the rather long fore wings.

*Hab.* China.

*a.* ♀. } (Types.)  
*b.* ♀. }

Shanghai.  
Hong Kong.

R. Fortune.  
J. C. Bowring, Esq.

### B. *North-American Species.*

#### 107. *Tenthredo grandis.*

*Allantus grandis*, *Nort. Bost. Journ.* vii. p. 239, n. 7 (1860).

*Tenthredo grandis*, *Nort. Proc. Bost. Soc.* ix. p. 121 (1862); *id. Trans.*

*Amer. Ent. Soc.* ii. p. 227 (1868).

*Hab.* North America.

*a.* ♀.

United States.

#### 108. *Tenthredo antennata.*

(Plate XII. fig. 1.)

*Exp. al.* 1 poll., *long. corp.* 6 lin.

Black; abdomen blue-black; four last joints of the antennæ, labrum, base of mandibles, cenchri, and a spot on each side of the basal segment of the abdomen yellowish; the four anterior tibiæ and tarsi dull testaceous. Wings hyaline and iridescent, clouded beyond the middle, with piceous nervures. One specimen has a red spot in the middle of the thorax.

*a, b.* ♀. (Types.)

Nova Scotia.

Lieut. Redman.

#### 109. *Tenthredo nigricollis.*

(Plate XII. fig. 3.)

*Exp. al.* 10 lin., *long. corp.* 5 lin.

Black; antennæ pale yellow beyond joint 5 (two last joints broken off); mouth and two spots above the posterior coxæ pale yellow; four anterior tibiæ, tarsi, and tips of femora testaceous. Wings yellowish hyaline, with brown nervures and black stigma.

May be distinguished from *T. grandis* and *T. antennata* by the collar not being yellow.

*a.* ♀. (Types.)

Newfoundland\*.

#### 110. *Tenthredo melina.*

*Allantus mellinus*, *Nort. Bost. Journ.* vii. p. 24 (1860).

*Tenthredo mellinus*, *Nort. Proc. Bost. Soc.* ix. p. 121 (1862); *id.*

*Trans. Amer. Ent. Soc.* ii. p. 227 (1868).

*Hab.* North America.

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\* "Captured in April" (MS. note).

111. *Tenthredo xanthe*.

*Tenthredo xanthus*, *Nort. Proc. Ent. Soc. Phil.* iii. p. 13, n. 26 (1864);  
*id. Trans. Amer. Ent. Soc.* ii. p. 228 (1868).

*Hab.* Colorado.

112. *Tenthredo obscuripennis*.

*Tenthredo obscuripennis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 20  
 (1880).

*Hab.* Nevada; California.

113. *Tenthredo ruficolor*.

*Tenthredo ruficolor*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 228 (1868).

*Hab.* Canada.

114. *Tenthredo verticalis*.

*Tenthredo verticalis*, *Say, Long's Second Exped.* ii. p. 317, n. 2 (1824);  
*Nort. Proc. Bost. Soc.* ix. p. 121 (1862); *id. Trans. Amer. Ent. Soc.*  
 ii. p. 228 (1868).

*Allantus verticalis*, *Nort. Bost. Journ.* vii. p. 250 (1860).

*Hab.* United States.

|            |                |                |
|------------|----------------|----------------|
| a. ♀.      | Nova Scotia.   | Lieut. Redman. |
| b. ♀.      | Maine.         |                |
| c, d. ♂ ♀. | United States. |                |

115. *Tenthredo cingulata*.

*Tenthredo cingulata*, *Provancher, Nat. Canad.* x. p. 196 (1878).

*Hab.* Canada.

116. *Tenthredo lobata*.

*Allantus lobatus*, *Nort. Bost. Journ.* vii. p. 253 (1860).

*Tenthredo lobatus*, *Nort. Proc. Bost. Soc.* ix. p. 121 (1862); *id. Trans.*  
*Amer. Ent. Soc.* ii. p. 229, n. 6 (1868).

*Hab.* United States.

|       |                |
|-------|----------------|
| a. ♀. | United States. |
|-------|----------------|

117. *Tenthredo angulifer*.

*Allantus angulifer*, *Nort. Bost. Journ.* vii. p. 252, n. 31 (1860).

*Tenthredo angulifer*, *Nort. Proc. Bost. Soc.* ix. p. 121 (1862); *id. Trans.*  
*Amer. Ent. Soc.* ii. p. 229, n. 7 (1868).

*Hab.* North America.

118. *Tenthredo ventralis*.

*Allantus ventralis*, Say, *West. Quart. Rep.* ii. p. 72, n. 1 (1823); *Nort. Bost. Journ.* vii. p. 253, n. 33 (1860).

*Tenthredo ventralis*, *Nort. Proc. Bost. Soc.* ix. p. 121 (1862); *id. Trans. Amer. Ent. Soc.* ii. p. 230, n. 8 (1868).

*Hab.* Arkansas.

119. *Tenthredo angulata*.

*Tenthredo angulatus*, *Nort. Proc. Ent. Soc. Phil.* iii. p. 13, n. 27 (1864); *id. Trans. Amer. Ent. Soc.* ii. p. 230, n. 9 (1868).

*Hab.* United States.

120. *Tenthredo formosa*.

*Tenthredo formosus*, *Nort. Proc. Ent. Soc. Phil.* iii. p. 14, n. 28 (1864); *id. Trans. Amer. Ent. Soc.* ii. p. 231, n. 10 (1868).

*Hab.* United States.

a. ♂.

United States.

121. *Tenthredo thora*.

(Plate XII. fig. 2.)

Exp. al. 9-10 lin., long. corp. 5 lin.

Black; face, cheeks, a narrow inner orbital line, collar, tegulæ, sides and hinder extremity of pectus, and all the coxæ and trochanters yellow; pleura black and yellow; abdomen, front of pectus, and legs rufous; extremities of hind femora and tibiæ above, and more or less of the hind tarsi, black. Wings yellowish hyaline, with brown nervures; stigma yellow in front. In the male the pectus below the pleura and the undersurface of all the femora are wholly yellow.

One specimen has the two last segments of the abdomen black.

*Hab.* Hudson's Bay.

a-g. ♂ ♀. (Types.)

St. Martin's Falls, Albany River.

Dr. Barnston.

122. *Tenthredo eximia*.

*Tenthredo eximius*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 231 (1868).

*Hab.* New England.

123. *Tenthredo dissimilis*.

*Allantus dissimilis*, *Nort. Bost. Journ.* vii. p. 250, n. 29 (1860).

*Tenthredo dissimilis*, *Nort. Proc. Bost. Soc.* ix. p. 121 (1862); *id. Trans. Amer. Ent. Soc.* ii. p. 231 (1868).

*Hab.* Illinois.

124. *Tenthredo pallicoxa*.

*Tenthredo pallicoxa*, *Provancher, Nat. Canad.* x. p. 201 (1878).

*Hab.* Canada.

125. *Tenthredo signata*.

*Allantus signatus*, *Nort. Bost. Journ.* vii. p. 246, n. 23 (1860).

*Tenthredo signatus*, *Nort. Proc. Bost. Soc.* ix. p. 121 (1862); *id.*  
*Trans. Amer. Ent. Soc.* ii. p. 232, n. 13 (1868).

*Hab.* New England.

126. *Tenthredo subrufescens*.

(Plate XII. fig. 4.)

Exp. al. 10 lin., long. corp. 5 lin.

Black; face, cheeks, collar, tegulæ, a line on the sides of pectus, and two spots above the hind coxæ yellow; legs rufo-testaceous; coxæ and pectus before the middle coxæ paler; abdomen reddish beneath, except at tips, and segments 5, 6, and part of 4 red above; apical half of hind tibiæ and hind tarsi black. Wings yellowish hyaline, with brown nervures; costa reddish, stigma brown.

*Hab.* Hudson's Bay.

a. ♀. (Type.)

St. Martin's Falls, Albany  
River.

Dr. Barnston.

127. *Tenthredo basilaris*.

*Tenthredo basilaris*, *Provancher, Nat. Canad.* x. p. 196 (1878).

*Hab.* Canada.

128. *Tenthredo subcærulea*.

*Tenthredo subcærulea*, *Esch. Entomogr.* p. 91 (1822).

*Hab.* Unalaschka.

129. *Tenthredo variata*.

*Tenthredo variatus*, *Nort. Proc. Ent. Soc. Phil.* iii. p. 13 (1864); *id.*  
*Trans. Amer. Ent. Soc.* ii. p. 232, n. 14 (1868).

*Hab.* Western North America.

130. *Tenthredo pleuralis*.

*Tenthredo pleuralis*, *Cress. Proc. Ent. Soc. Phil.* iv. p. 245, n. 7 (1865);  
*Nort. Trans. Amer. Ent. Soc.* ii. p. 233, n. 15 (1868).

*Hab.* North America.

131. *Tenthredo variegata*.

*Tenthredo variegatus*, *Nort. Proc. Ent. Soc. Phil.* iii. p. 13 (1864); *id. Trans. Amer. Ent. Soc.* ii. p. 233, n. 16 (1868).

*Hab.* Rocky Mountains.

132. *Tenthredo rufipedibus*.

*Tenthredo rufopedibus*, *Nort. Proc. Ent. Soc. Phil.* iii. p. 15, n. 30 (1864); *id. Trans. Amer. Ent. Soc.* ii. p. 234, n. 17 (1868).

*Tenthredo rufopediba* (!), *Cress. Trans. Amer. Ent. Soc.* viii. p. 63 (1880).

*Hab.* North America.

133. *Tenthredo scævola*.

*Tenthredo scævola*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 20 (1880).

*Hab.* Nevada.

134. *Tenthredo lacticincta*.

*Tenthredo lacticincta*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 21 (1880).

*Hab.* Nevada.

135. *Tenthredo suavis*.

*Tenthredo suavis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 21 (1880).

*Hab.* Nevada.

136. *Tenthredo bella*.

*Tenthredo bella*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 21 (1880).

*Hab.* Colorado.

137. *Tenthredo varipicta*.

*Tenthredo varipictus*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 234, n. 18 (1868).

*Hab.* North America.

a. ♀.

St. Martin's Falls, Albany River,  
Hudson's Bay.

Dr. Barnston.

138. *Tenthredo zetes*.

(Plate XII. fig. 6.)

Exp. al. 10-11 lin., long. corp. 5-6 lin.

Black; face, cheeks, collar, tegulæ, a line on the sides of pectus, the outside of all the coxæ, and two spots (the uppermost

indistinct) above the hind coxæ yellow; coxæ, anterior femora beneath, and middle of pectus waxen yellow; legs reddish, with a black line above; hind tarsi black. Wings hyaline, with brown nervures.

*Hab.* Hudson's Bay.

*a, b.* ♂. (Types.)

St. Martin's Falls, Albany  
River.

Dr. Barnston.

### 139. *Tenthredo luteipes*.

*Tenthredo luteipes*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 21 (1880).

*Hab.* Nevada.

### 140. *Tenthredo parvula*.

*Tenthredo parvula*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 22 (1880).

*Hab.* California.

### 141. *Tenthredo varians*.

*Tenthredo varians*, *Norton, Trans. Amer. Ent. Soc.* ii. p. 235 (1868).

*Hab.* Canada.

### 142. *Tenthredo nupera*.

*Tenthredo nupera*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 22 (1880).

*Hab.* Nevada.

### 143. *Tenthredo rubella*.

*Tenthredo rubella*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 22 (1880).

*Hab.* Nevada.

### 144. *Tenthredo mutans*.

*Tenthredo mutans*, *Norton, Trans. Amer. Ent. Soc.* ii. p. 236, n. 23 (1868).

*Hab.* Canada; New Hampshire.

### 145. *Tenthredo ferrugineipes*.

*Tenthredo ferrugineipes*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 22 (1880).

*Hab.* Colorado.

### 146. *Tenthredo sectilis*.

*Tenthredo sectilis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 22 (1880).

*Hab.* Colorado; Nevada.

147. *Tenthredo morosa*.

*Tenthredo morosa*, Cress. *Trans. Amer. Ent. Soc.* viii. p. 23 (1880).

*Hab.* Colorado.

148. *Tenthredo rubeola*.

*Tenthredo rubeola*, Cress. *Trans. Amer. Ent. Soc.* viii. p. 23 (1880).

*Hab.* Nevada.

149. *Tenthredo mimula*.

*Tenthredo mimula*, Cress. *Trans. Amer. Ent. Soc.* viii. p. 23 (1880).

*Hab.* Colorado.

150. *Tenthredo semirufa*.

*Tenthredo semirufus*, Norton, *Proc. Ent. Soc. Phil.* iii. p. 12, n. 23 (1864); *id.* *Trans. Amer. Ent. Soc.* ii. p. 235 (1868).

*Hab.* Colorado.

151. *Tenthredo discrepans*.

*Tenthredo discrepans*, Norton, *Trans. Amer. Ent. Soc.* ii. p. 235, n. 21 (1868).

*Hab.* Hudson's Bay.

152. *Tenthredo tricolor*.

*Allantus tricolor*, Norton, *Bost. Journ.* vii. p. 247, n. 22 (1860).

*Tenthredo tricolor*, Norton, *Proc. Bost. Soc.* ix. p. 121 (1861); *id.* *Trans. Amer. Ent. Soc.* ii. p. 236, n. 22 (1868).

*Hab.* North America.

153. *Tenthredo semirubra*.

*Tenthredo semirubra*, Norton, *Proc. Ent. Soc. Phil.* iii. p. 14, n. 29 (1864); *id.* *Trans. Amer. Ent. Soc.* ii. p. 236, n. 24 (1868).

*Hab.* Massachusetts.

154. *Tenthredo barnstonii*.

(Plate XII. fig. 10, ♂, fig. 9, ♀.)

Exp. al. 9–11 lin., long. corp. 5–6 lin.

Black; face yellow; abdomen rufous beyond the first four segments; four anterior tibiæ and tarsi testaceous in front; hind tarsi with the last joint testaceous. In the male only the first and part of the second segment of the abdomen is black above, and all the



femora are rufous beneath. One specimen has two yellow spots above the hind coxæ. Wings yellowish hyaline, with brown nervures.

*Hab.* Hudson's Bay.

*a-e.* ♂ ♀. (Types.)

St. Martin's Falls,  
Albany River.

Dr. Barnston.

### 155. *Tenthredo cressonii*.

(Plate XII. fig. 12.)

*Exp. al.*  $10\frac{1}{2}$  lin., *long. corp.* 5 lin.

Black; first two joints of the antennæ more or less distinctly reddish; cheeks black or red, or the lower part yellow or red; face yellow. Abdomen red; more or less of the two first segments and the sides of the two following black above and below. Legs red; four anterior femora generally with a black line above at the base; hind femora, at least above, tips of tibiæ, and at least the first joint of the tarsi black. Wings yellowish hyaline, with brown nervures; costa yellow; extremity of stigma brown.

Evidently a variable species.

*Hab.* Hudson's Bay; Nova Scotia.

*a, b.* ♀. }  
*c, d.* ♀. } (Types.)

Nova Scotia.  
St. Martin's Falls,  
Albany River.

Lieut. Redman.  
Dr. Barnston.

### 156. *Tenthredo vapidæ*.

(Plate XII. fig. 7.)

*Exp. al.* 7-11 lin., *long. corp.* 4-5 lin.

Black; face, inner and lower orbits, collar, two spots over the hind coxæ, and sometimes the scutellum and cenchri, yellow. Abdomen with segments 3 and 4 or 3-5 red in the female; in the male, the abdomen is red, with the last two or three segments black above. Legs red, all the femora usually with a black line above; in the female, the hind femora and the tips of the hind tibiæ are likewise black. Wings hyaline, with brown nervures; costa and stigma brown.

*Hab.* Hudson's Bay.

*a-f.* ♂ ♀. (Types.)

St. Martin's Falls,  
Albany River.

Dr. Barnston.

### 157. *Tenthredo piceocincta*.

*Allantus piceocinctus*, *Norton, Bost. Journ.* vii. p. 240 (1860).

*Tenthredo piceocinctus*, *Norton, Proc. Bost. Soc.* ix. p. 120 (1861); *id.* *Trans. Amer. Ent. Soc.* ii. p. 236 (1868).

*Hab.* United States.

*a.* ♀.

United States.

158. *Tenthredo pectoralis*.

*Tenthredo pectoralis*, Norton, *Proc. Ent. Soc. Phil.* iii. p. 11, n. 22 (1864); *id.* *Trans. Amer. Ent. Soc.* ii. p. 237, n. 26 (1869).

*Hab.* Colorado.

159. *Tenthredo rufopectus*.

*Allantus rufopectus*, Norton, *Bost. Journ.* vii. p. 258, n. 38 (1860).

*Tenthredo rufopectus*, Norton, *Proc. Bost. Soc.* ix. p. 121 (1861); *id.* *Trans. Amer. Ent. Soc.* ii. p. 237, n. 27 (1869).

*Hab.* United States.

a-c. ♂ ♀.  
d. ♀.

Nova Scotia.  
United States.

Lieut. Redman.

160. *Tenthredo mellicoxa*.

*Tenthredo mellicoxa*, Provancher, *Nat. Canad.* x. p. 198 (1878).

*Hab.* Canada.

161. *Tenthredo leucostoma*.

*Allantus leucostoma*, W. Kirby, *Faun. Bor.-Amer.* iv. p. 256 (1837).

*Tenthredo rufipes*, Say (*nec Klug*), *Long's 2nd Exped.* ii. p. 317, n. 3 (1824); Norton, *Proc. Bost. Soc.* ix. p. 121 (1862); *id.* *Trans. Amer. Ent. Soc.* ii. p. 237, n. 28 (1869).

*Allantus rufipes*, Norton, *Bost. Journ.* vii. p. 255, n. 37 (1860).

*Hab.* North America.

a-d. ♀.  
e. ♀.

St. Martin's Falls, Albany River,  
Hudson's Bay.  
Nova Scotia.

Dr. Barnston.

Lieut. Redman.

162. *Tenthredo addenda*.

*Tenthredo addenda*, Cress, *Trans. Amer. Ent. Soc.* viii. p. 23 (1880).

*Hab.* Colorado; Nevada; California.

163. *Tenthredo vittatipes*.

*Tenthredo vittatipes*, Cress, *Trans. Amer. Ent. Soc.* viii. p. 24 (1880).

*Hab.* Nevada.

164. *Tenthredo occidentalis*.

*Tenthredo occidentalis*, Cress, *Trans. Amer. Ent. Soc.* viii. p. 23 (1880).

*Hab.* Colorado.

165. *Tenthredo lateraria*.

*Tenthredo lateraria*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 23 (1880).

*Hab.* California.

166. *Tenthredo lineata*.

*Tenthredo lineata*, *Provancher, Nat. Canad.* x. p. 198 (1878).

*Hab.* Hudson's Bay; Canada.

*a, b.* ♀.                      St. Martin's Falls, Albany River.                      Dr. Barnston.

167. *Tenthredo concessa*.

*Tenthredo concessus*, *Norton, Trans. Amer. Ent. Soc.* ii. p. 238, n. 29 (1869).

*Hab.* Hudson's Bay.

168. *Tenthredo flavomarginis*.

*Allantus flavomarginis*, *Norton, Bost. Journ.* vii. p. 254, n. 55 (1860).

*Tenthredo flavomarginis*, *Norton, Proc. Bost. Soc.* ix. p. 121 (1862);

*id. Trans. Amer. Ent. Soc.* ii. p. 238, n. 30 (1869).

*Hab.* United States.

*a.* ♀.                                      Nova Scotia.\*                                      Lieut. Redman.

169. *Tenthredo uniformis*.

(Plate XI. fig. 14.)

*Exp. al.* 10 lin., *long. corp.* 5 lin.

Black; head rugose, abdomen shining; face yellow, very hairy; cenchri yellow, tips of mandibles reddish. Anterior legs testaceous or yellowish, sometimes with a black line above; intermediate tibiae and tarsi mostly black above and reddish beneath; hind legs black, with the last joint of the tarsi reddish. Wings yellowish hyaline, with brown nervures; costa and stigma reddish brown, the latter paler in front.

*Hab.* Hudson's Bay.

*a, b.* ♀. (Type.)                      St. Martin's Falls,                      Dr. Barnston.  
Albany River.

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\* Differs from Norton's description in the colour of the legs, which are black, varied with rufo-testaceous rather than with whitish. It is possibly a distinct species.

170. *Tenthredo hudsoni*.

(Plate XII. fig. 15.)

Exp. al. 10 lin., long. corp. 5 lin.

Black; antennæ more or less piceous, the third joint longest, fourth and fifth of equal length, the remainder shorter; face, a triangle above, lower orbits, collar, scutellum, cenchri, and two spots above the posterior coxæ yellow; tegulæ reddish; legs rufo-testaceous, four hind femora and part of the apex of the tibiæ above black; segments 3 and 4 of the abdomen more or less reddish above. Wings yellowish hyaline; nervures reddish brown.

*Hab.* Hudson's Bay.*a-e.* ♀. (Types.)St. Martin's Falls,  
Albany River.

Dr. Barnston.

171. *Tenthredo borealis*.

(Plate XII. fig. 13.)

Exp. al. 9 lin., long. corp. 5 lin.

Black; antennæ piceous, especially at the base; face, collar, tegulæ, cenchri, and two spots above the hind coxæ pale yellow; legs yellowish, tarsi shading into reddish; a line above the anterior femora, the four hind femora, and the tips of the hind tibiæ black. Segments 4-7 of the abdomen with rufous markings; segment 5 entirely rufous above and below. Wings yellowish hyaline, with brown nervures; costa yellow, extremity of the stigma brown.

*Hab.* Hudson's Bay.*a, b.* ♀. (Types.)St. Martin's Falls,  
Albany River.

Dr. Barnston.

172. *Tenthredo cinctitibiis*.

*Tenthredo cinctitibiis*, Norton, *Trans. Amer. Ent. Soc.* ii. p. 239, n. 31 (1869).

*Hab.* Hudson's Bay.*a-c.* ♀.

St. Martin's Falls, Albany River.

Dr. Barnston.

173. *Tenthredo decorata*.

*Tenthredo decorata*, Provancher, *Nat. Canad.* x. p. 200 (1878).

*Hab.* Canada.174. *Tenthredo fumipinnis*.

*Tenthredo fumipennis*, Norton, *Trans. Amer. Ent. Soc.* ii. p. 239, n. 32 (1869).

*Hab.* California.

175. *Tenthredo nimbipinnis*.

*Tenthredo nimbipennis*, *Cress. Trans. Amer. Ent. Soc.* iv. p. 155 (1872).

*Hab.* Texas.

*a, b.* ♀.

Texas.

Dr. Cresson.

176. *Tenthredo nigrofasciata*.

*Tenthredo nigrofasciata*, *Esch. Entomogr.* p. 92 (1822).

*Hab.* Unalashka.

177. *Tenthredo vittata*.

(Plate XII. fig. 14.)

Exp. al.  $10\frac{1}{2}$  lin., long. corp. 5 lin.

Chestnut-red; ocelli and a small spot between and beneath each antenna black; face yellow, clypeus very deeply concave, mandibles red. Thorax red, with three black spots above, and the middle of the pectus black; collar and tegulæ yellow. Abdomen red above, and black to the middle below; two yellow spots above the hinder coxæ; the first four segments above are narrowly edged with black behind, this is interrupted in the middle on the third, but more widely on the fourth; the sixth segment is marked with a small black spot on each side; and the saws are black. Coxæ black; legs reddish; front femora with a black line at base above; four hinder femora mostly black; four front tibiæ yellowish beneath; hind tibiæ yellow. Wings yellowish hyaline, with yellow nervures; stigma reddish brown at the extremity.

*Hab.* Hudson's Bay.

*a.* ♀. (Type.)

St. Martin's Falls,  
Albany River.

Dr. Barnston.

178. *Tenthredo castanea*.

(Plate XII. fig. 17.)

Exp. al. 11 lin., long. corp. 5 lin.

Chestnut-red; face yellow, tips of mandibles red, middle of pectus black. Fore wings yellowish hyaline, with yellow and brown nervures; costa yellow; stigma brown at the extremity: hind wings clear hyaline, with brown nervures.

*Hab.* Hudson's Bay.

*a.* ♀. (Type.)

St. Martin's Falls,  
Albany River.

Dr. Barnston.

179. *Tenthredo* (?) *aperta*.

(Plate XII. fig. 16.)

Exp. al.  $9\frac{1}{2}$  lin., long. corp. 4 lin.

Head pale yellow; a large black spot, trifold in front, covers the middle of the vertex from the occiput to the antennæ, but does not extend to the eyes; antennæ black, joints 5–8 yellow, joints 3 and 4 of equal length. Thorax black above; V-spot, scutellum, and post-scutellum yellow; tegulæ and cenchri more reddish; pectus reddish in the middle, the sides yellow, bordered with black before and behind. Abdomen testaceous, black at the base, and with a broad blackish band on the middle of each segment above, except towards the extremity. Legs rufo-testaceous or yellowish; intermediate tibiæ black at the base, and three last joints of intermediate tarsi black; base of hind femora above, and hind tibiæ except at the tips, black. Wings hyaline, with brown nervures; base of wings and of stigma yellowish.

This species does not agree very well with *Tenthredo*: the antennæ are long and slender, quite as long as the body, and the third and fourth joints are of equal length; the wings are long, and the lanceolate cell is open; the abdomen is flattened and comparatively short, and the hind coxæ extend as far as the third segment.

*Hab.* Mexico.*a.* ♀. (Type.)

Orizaba.

M. Sallé.

*C. Indian Species.*180. *Tenthredo smithii*.

(Plate XI. fig. 9.)

Exp. al. 14 lin., long. corp. 7 lin.

Closely allied to *T. fortunii*, Kirby (*antè*, no. 105. p. 307); but the collar, V-spot, two marks on the thorax behind, scutellum, the sides of the pectus, the sides of the coxæ, and the four basal joints of the abdomen are yellowish. Four hinder femora with a short black line above at the base; no distinct lines on the other parts of the legs.

*Hab.* India.*a.* ♀. (Type.)

India.

From the late F. Smith's  
Collection.181. *Tenthredo fallax*.*Tenthredo fallax*, *Smith*, 2nd *Yarkand Miss.* p. 20 (1878).*Hab.* Kashmir; Punjab.

182. *Tenthredo latifasciata*.

(Plate XI. fig. 15.)

*Tenthredo latifasciata*, *Cameron, Trans. Ent. Soc. Lond.* 1877, p. 87.Exp. al. 1 poll., long. corp.  $5\frac{1}{2}$  lin.

Black; mandibles, cenchri, and a spot on segments 2–4 of the abdomen white; legs reddish beyond the base of the femora; hind tarsi brown; head and thorax pubescent, finely punctured. Antennæ rather long, third joint not much longer than fourth; second joint reddish.

*Hab.* India.*a.* ♀. (Type.)

India.

183. *Tenthredo indica*.

(Plate XI. fig. 18.)

*Tenthredo indica*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 468.

Exp. al. 11 lin., long. corp. 5 lin.

Black; antennæ long, joint 3 and base of joint 4 of the right antennæ, face below the antennæ, a broad circle round the eyes (incomplete behind collar), V-spot, scutellum and two postscutella, and two large spots on the pleura white; a white band on the sides of each segment of the abdomen below, not meeting in the middle, and on the first five segments above, the third nearly, and the two last completely, united. Legs white; front tibiæ with a black line above, and extremities of the joints of the tarsi black; four hinder femora black above, as well as the apical half of the tibiæ, the tips of the first two joints of the tarsi, and almost the whole of the remainder. Wings iridescent hyaline, with blackish nervures, the apical third purplish hyaline.

*Hab.* North India.*a.* ♂.

North India

Capt. Boyes.

184. *Tenthredo melanotarsus*.

(Plate XI. fig. 10.)

*Tenthredo melanotarsus*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 467

Exp. al. 1 poll. 2 lin. to 1 poll. 5 lin., long. corp. 6–8 lin.

Testaceous or reddish; antennæ, except at the base, tips of mandibles, and hind tarsi black; face whiter than the ground-colour: segments 2 and 3 of the abdomen bordered with black behind above; last three or four segments violet-black. Wings deep yellowish hyaline, with yellow nervures; tip dusky, commencing with

a deep violaceous blotch on the costa, throwing off a smoky streak towards the inner margin.

*Hab.* China; North India.

|                         |              |                 |
|-------------------------|--------------|-----------------|
| <i>a-c.</i> ♀. (Types.) | Shanghai.    | R. Fortune.     |
| <i>d.</i> ♀.            | Nepal.       | Gen. Hardwicke. |
| <i>e.</i> ♀.            | Bootan.      | Dr. Pemberton.  |
| <i>f.</i> ♂.            | North India. | Dr. Pemberton.  |

### 185. *Tenthredo xanthoptera*.

(Plate XI. fig. 13.)

*Tenthredo xanthoptera*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 467.

Exp. al. 1 poll. 4 lin. to 1 poll. 6 lin., long. corp. 6 lin.

Rufo-testaceous; antennæ, except at the base, tips of mandibles, ocelli, hind tibiæ and tarsi, and the claws and pulvelli of the intermediate tarsi black. Wings deep yellowish hyaline, with yellowish nervures; tips uniform brown, with a violet iridescence, most distinct on the under surface.

This species appears to be scarcely distinct from *T. melanotarsis*, *Cam. (antè, p. 321)*.

*Hab.* North India.

|                      |         |                 |
|----------------------|---------|-----------------|
| <i>a.</i> ♀. (Type.) | Nepal.  | Gen. Hardwicke. |
| <i>b.</i> ♀.         | Bootan. | Dr. Pemberton.  |

### 186. *Tenthredo simulans*.

*Tenthredo simulans*, *Cameron, Trans. Ent. Soc. Lond.* 1877, p. 87.

*Hab.* India.

### 187. *Tenthredo simulata*.

*Tenthredo simulata*, *Smith, Second Yarkand Miss.* p. 19 (1878).

*Hab.* Kashmir.

### 188. *Tenthredo nigromaculata*.

*Tenthredo nigromaculatus*, *Smith, Second Yarkand Miss.* p. 20 (1878).

*Hab.* Kashmir.

### 189. *Tenthredo clypeata*.

(Plate XII. fig. 5.)

*Tenthredo clypeata*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 466.

Exp. al. 1 poll. 2 lin. to 1 poll. 3 lin., long. corp. 6-7 lin.

Dark green, more or less shining; thorax coppery, head rugose,



antennæ black, clypeus yellowish. Fore wings dusky hyaline, with green nervures and blue and green reflections, especially towards the base; hind wings hyaline.

*Hab.* North India.

*a, b.* ♀. (Types.)

North India.

Capt. Boyes.

### 190. *Tenthredo coccinoceras* \*.

(Plate XII. fig. 11.)

*Tenthredo coccinocerus*, Wood, *Insects Abroad*, p. 388, fig. 188 (1874).

*Tenthredo metallica*, Cameron, *Trans. Ent. Soc. Lond.* 1876, p. 466.

Exp. al. 1 poll. 5 lin., long. corp. 7 lin.

Brilliant metallic green; abdomen above blue; antennæ purple, rather long, with an unusually long basal joint; tibiæ and tarsi mostly purple. Fore wings smoky hyaline, with green nervures, and blue and green iridescent reflections; hind wings hyaline, slightly clouded towards the tips.

*Hab.* North India.

*a, b.* ♀. (Types.)

Darjiling.

Messrs. Schlagintweit.

### 191. *Tenthredo* (?) *coxalis* †.

*Tenthredo coxalis*, Smith, *Journ. Linn. Soc., Zool.* ii. p. 116 (1858).

*Hab.* Singapore.

### D. *South-American Species.*

### 192. *Tenthredo* (?) *delicatula*.

(Plate XII. fig. 8.)

Exp. al. 5 lin., long. corp.  $2\frac{1}{2}$  lin.

Head and antennæ black; prothorax above and at the sides, mesothorax above (except a large shining black spot in front and one on each side near the base of the hind wings), and scutellum bright red; postscutellum, cenchri, and a line behind the first segment of the abdomen paler crimson; abdomen, undersurface, and legs light brown. Wings smoky hyaline, with brown nervures; the division between the first and second submarginal cells nearly obsolete.

*Hab.* Venezuela.

*a.* ♂. (Type.)

Venezuela.

E. Dyson.

\* So named on account of its purple (!) antennæ; but a name once given, even if erroneous, cannot be set aside.

† There is no clue to the genus of this species in the description. It is, perhaps, not a true *Tenthredo*.

## 102. DIPTEROMORPHA.

Wings long and narrow: fore wings resembling those of a *Tipula* in shape, with two marginal cells, the dividing line curved almost at a right angle, and four submarginal cells, the second marked with a horny point—the second receiving the first recurrent nervure at an acute angle, and the third receiving the second at a right angle; lanceolate cell long and narrow, with a straight cross line at about one third of its length. Hind wings with two large middle cells. Antennæ slender, 9-jointed, the fourth joint a little longer than the third, the rest gradually diminishing; all the joints are thickened, and the second emits a small tooth on the inside at the extremity. Head and thorax of moderate size; abdomen linear, long and narrow. Legs long and slender, hairy; tibiæ with two long terminal spurs; joints of the tarsi much widened at the extremity, with short strong spines.

This curious insect is not closely allied to any described genus of *Tenthredinidæ*.

1. *Dipteromorpha rotundiventris*.

(Plate XIII. figs. 1, 1 a.)

*Macrophya rotundiventris*, *Cam. Trans. Ent. Soc. Lond.* 1876, p. 465.

Exp. al.  $13\frac{1}{2}$  lin., long. corp. 6 lin.

Head black; face and first two joints of antennæ yellowish white, the remaining joints rufo-testaceous, darkest at the joints and towards the tips. Thorax reddish above and on the sides in front; pectus and base of four hinder coxæ black; two large spots on middle of mesothorax above, a dot at the base of the hind wings, metathorax, and first segment of the abdomen above black; cenchri pale. Abdomen rufo-testaceous, with a shining black stripe on each side above, meeting on the last two segments; anal segment black beneath. Legs yellowish white, shading into rufo-testaceous on the tarsi and tibiæ above; intermediate femora with a short black line towards the extremity above; hind coxæ black above almost to the extremity; hind femora with a black stripe on each side, and hind tibiæ black, except at the base. Wings yellowish hyaline, with piceous nervures; tip dusky; costal cell and stigma yellow, the former bordered below, and separated from the stigma by black nervures.

*Hab.* North India

a. ♂. (Type.)

Masuri.

Capt. Laing.

103. *HYPOLÆPUS*.

Shape of *Tenthredo*. Antennæ with the first two joints very small; joint 3 slightly curved, joints 3–6 of about equal length;

the remainder broken off. Wings with one marginal and four sub-marginal cells, the second receiving both recurrent nervures, and marked with the usual black point; the first small, third and fourth moderate, the third not much smaller than the second; lanceolate cell petiolate; hind wings with two middle cells. Abdomen long; hind coxæ extending as far as the third segment; hind femora and tibiæ slightly dilated and flattened.

The position of this genus is uncertain. It has some affinities with the *Nematiinæ*.

### 1. *Hypolæpus abbotii*.

(Plate XIII. fig. 2.)

Exp. al. 11 lin., long. corp. 6 lin.

Blue-black, shining; third segment of the abdomen testaceous on the sides, and less distinctly so above. Wings iridescent, clear hyaline towards the base, and more dusky beyond, with blackish nervures.

*Hab.* North America.

*a.* ♀. (Type.)

Georgia.

Probably from Abbot's collection.

## 104. *AGLAOSTIGMA*.

Head transverse, not much extended back of eyes; antennæ long and slender, each joint dilated at apex, joint 3 longer than joints 4 and 5, which are of equal length, the remainder shorter. Abdomen moderately long and broad; hind coxæ extending as far as the third segment of the abdomen. Wings with two marginal and four sub-marginal cells; lanceolate cell with straight cross line; hind wings with one middle cell.

### 1. *Aglaostigma eburneiguttatum*.

(Plate XIII. figs. 3, 3*a*.)

Exp. al. 8 lin., long. corp. 4 lin.

Pale luteous: face, orbits, cheeks, with an adjoining stripe on each side at the back of the head, extending in points almost to a square spot behind the ocelli, two dots between the antennæ, and a triangle below, all ivory-white; collar, tegulæ, a large triangle in the place of a V-spot, scutellum, two postscutella (separated by a black mark), cenchri, sides of pectus (which are intersected by black lines), sides of coxæ, and a stripe before each pair of coxæ (divided in the middle and bordered by narrow black lines) of the same colour. Abdomen with all the segments above narrowly bordered with black behind, and with a row of small black dots on each side.

*Hab.* Siberia.

*a.* ♀. (Type.)

Angara.

105. **WALDHEIMIA** \*.

*Waldheimia*, *Brullé*, *Hym.* iv. p. 665 (1846).

1. *Waldheimia brasiliensis*.

*Tenthredo brasiliensis*, *St.-Farg. Mon. Tenth.* p. 95, n. 270 (1823).

*Hab.* Brazil.

2. *Waldheimia orbignyana*.

*Waldheimia orbignyana*, *Brullé*, *Hym.* iv. p. 665, pl. lxvi. fig. 8 (1846).

*Hab.* Bolivia.

3. *Waldheimia icterica*.

*Tenthredo* (*Allantus*) *icterica*, *Klug, Berl. Mag.* viii. p. 79, n. 67 (1818).

*Hab.* South America.

|                   |             |
|-------------------|-------------|
| <i>a.</i> ♂.      | Brazil.     |
| <i>b.</i> ♀.      | Demerara †. |
| <i>c, d.</i> ♂ ♀. |             |

4. *Waldheimia pallens*.

*Tenthredo* (*Allantus*) *pallens*, *Klug, Berl. Mag.* viii. p. 80, n. 68 (1818).

*Hab.* Surinam.

5. *Waldheimia aureola*.

*Tenthredo aureola*, *Costa, Ann. Mus. Nap.* ii. p. 67 (1868).

*Hab.* Amazons.

|                |      |                   |
|----------------|------|-------------------|
| <i>a-c.</i> ♀. | Ega. | H. W. Bates, Esq. |
|----------------|------|-------------------|

6. *Waldheimia dorsilinea*.

*Tenthredo dorsilinea*, *Costa, Ann. Mus. Nap.* ii. p. 67 (1868).

*Hab.* Amazons?

\* The species which I place in this genus are rather large, with deep yellowish-hyaline wings, generally with a dusky border; and the lanceolate cell is always open. The genus is quite distinct from *Macrophya*, to which Norton seems inclined to refer it. It has some affinities with the *Selandrinæ* and *Loboceratinæ*.

† The specimen from Demerara has paler wings, with narrower and paler tips. It may be a distinct species.

7. *Waldheimia batesii*.

(Plate XIII. fig. 4.)

Exp. al. 1 poll., long. corp. 5 lin.

Testaceous; antennæ except the basal joint, ocelli, two stripes on the thorax, tips of hind tibiæ, hind tarsi, the last two joints of the front tarsi, and most of the intermediate tarsi below the basal joint black. Wings deep yellowish hyaline, with yellowish nervures, not clouded at the tips.

*Hab.* Amazons.*a, b.* ♀. (Types.)

Para.

H. W. Bates, Esq.

8. *Waldheimia* (?) *flava*.*Tenthredo flava*, *Fabr. Syst. Piez.* p. 37, n. 39 (1804).*Hab.* South America.9. *Waldheimia* (?) *sulphurea*.*Tenthredo sulphurea*, *Fabr. Syst. Piez.* p. 37, n. 40 (1804).*Hab.* South America.

## 106. PARASTATIS.

*Parastatis*, *Kirb. Ent. M. Mag.* xviii. p. 107 (1881).1. *Parastatis indica*.

*Parastatis indica*, *Kirby, Ent. M. Mag.* xviii. p. 107 (1881); *Waterh. Aid to the Identification of Insects*, i. pl. lxviii. (1881).

*Hab.* India.Probably allied to *Allantus*.

## Subfamily XIII. LYDINÆ.

## 107. MEGALODONTES.

*Megalodontes*, *Latr. Hist. Nat. Crust. Ins.* iii. p. 302 (1802).

*Tarpa*, *Fabr. Syst. Piez.* p. 19 (1804); *Klug, Mag. Berl.* ii. p. 263 (1807); *Ent. Monogr.* p. 183 (1824).

1. *Megalodontes cephalotes*.

*Tenthredo cephalotes*, *Fabr. Spec. Ins.* i. p. 408, n. 14 (1781); *Panz. Faun. Germ.* Heft 62, pls. vii. & viii. (1799); *Coqueb. Icones*, pl. iii. fig. 8 (1799).

*Tarpa cephalotes*, *Klug, Berl. Mag.* ii. p. 266, n. 1 (1807); *Ent. Monogr.* p. 184, n. 1 (1824).

*Tarpa panzeri*, *Leach, Zool. Misc.* iii. p. 132 (1817).

*Hab.* Europe.

|            |              |                 |
|------------|--------------|-----------------|
| a. ♀.      | Britain.     | J. F. Stephens. |
| b, c. ♂ ♀. | Britain.     |                 |
| d, e. ♂ ♀. | Italy.       |                 |
| f. ♀.      | Switzerland. | Mr. irch.       |

## 2. *Megalodontes flavicornis*.

*Tarpa flavicornis*, *Klug, Ent. Monogr.* p. 192, n. 7 (1824); *Herr.-Schäff. Deutschl. Ins.* Heft 111, pl. xiii. (1829); *Zadd. Schrift. Königsb.* vi. p. 191 (1865).

*Hab.* Europe; Siberia.

|          |          |              |
|----------|----------|--------------|
| a. ♀.    | Germany. | J. F. Ruthe. |
| b, c. ♂. | Angara*. |              |

## 3. *Megalodontes mocsaryi*.

*Tarpa mocsaryi*, *André, Spec. Hym.* i. p. 481 (1881).

*Hab.* Hungary.

## 4. *Megalodontes klugii*.

*Tarpa klugii*, *Leach, Zool. Misc.* iii. p. 131, n. 2 (1817).

*Tarpa spissicornis*, *Klug, Ent. Monogr.* p. 187, n. 3 (1824); *Zaddach, Schrift. Königsb.* vi. p. 192, pl. iv. fig. 22 (1865).

*Tarpa pectinicornis*, *Klug, Ent. Monogr.* p. 194, n. 9 (1824).

*Hab.* Europe.

|            |                               |               |
|------------|-------------------------------|---------------|
| a, b. ♂ ♀. | Britain.                      |               |
| c, d. ♂.   | Munich.                       | H. Buchecker. |
| e-g. ♂ ♀.  | Zurich.                       | H. Buchecker. |
| h, i. ♂ ♀. | Lägern Mountain, near Zurich. | H. Buchecker. |
| k. ♂.      | Europe.                       |               |
| l. ♂.      | Amoor†.                       |               |

## 5. *Megalodontes plagiocephalus*.

*Tarpa plagiocephala*, *Fabr. Syst. Piez.* p. 20, n. 2 (1804); *Klug, Berl. Mag.* ii. p. 267, n. 2, pl. vii. fig. 1 (1807); *Ent. Monogr.* p. 189, n. 5 (1824); *Hart. Blattw.* p. 317, pl. i. figs. 24-31 (1837); *Zaddach, Schrift. Königsb.* vi. p. 194 (1865).

*Hab.* Europe.

|       |         |
|-------|---------|
| a. ♂. | Europe. |
|-------|---------|

\* These specimens have black antennæ, with the first joint ferruginous, but otherwise agree with *M. flavicornis*.

† This specimen only differs from European examples by the second and third segments of the abdomen being unspotted.

6. *Megalodontes flabellatus*.

*Tarpa flabellata*, *Eversm. Bull. Mosc.* xx. pt. i. p. 57 (1847).

*Hab.* Kasan.

7. *Megalodontes fabricii*.

(Plate XIII. fig. 5.)

*Tarpa fabricii*, *Leach, Zool. Misc.* iii. p. 130, n. 1 (1817); *Zaddach, Schrift. Königsb.* vi. p. 195, n. 5 (1865).

*Tarpa megacephala*, *Klug, Ent. Monogr.* p. 190, n. 6 (1824).

*Exp. al.* 1 poll., long. corp. 6 lin.

Black, with pale yellowish-white markings; antennæ rufous, with the two basal joints black; a pale spot between the eyes and antennæ (none between the antennæ), and a pale line on the back of the head. Thorax with the anterior angles, a spot on each side near the scutellum, and a spot on the pleura pale. Abdomen with the basal membrane pale, and pale bands on the fourth, fifth, and eighth segments, that on the fifth attenuated; sixth with a pale spot on each side; undersurface with three pale stripes, the first very short. Legs rufous; four anterior femora black at the base. Wings yellowish hyaline, darkest towards the costa.

*Hab.* Europe.

*a. ♀.* (Type.)

W. E. Leach.

8. *Megalodontes spireæ*.

*Tarpa spireæ*, *Klug, Ent. Monogr.* p. 188, n. 4 (1824).

*Hab.* Turkey.

9. *Megalodontes caucasicus*.

*Tarpa caucasicæ*, *André, Spec. Hym.* i. p. 479 (1881).

*Hab.* Caucasus.

10. *Megalodontes graciosus*.

*Tarpa graciola*, *Mocs. Term. füzetek*, v. p. 36 (1881); *André, Spec. Hym.* i. p. 487 (1881).

*Hab.* Granada.

11. *Megalodontes turcicus*.

*Tarpa turcica*, *Mocs. Term. füzetek*, v. p. 35 (1881); *André, Spec. Hym.* i. p. 483 (1881).

*Hab.* Asia Minor.

12. *Megalodontes orientalis*.

*Tarpa orientalis*, *Mocs. Term. füzetek*, v. p. 34 (1881); *André, Spec. Hym.* i. p. 481 (1881).

*Hab.* Brussa.

13. *Megalodontes bucephalus*.

*Tarpa bucephala*, *Klug, Ent. Monogr.* p. 185. n. 2 (1824); *Zaddach, Schrift. Königsb.* vi. p. 197 (1865).

*Tarpa hispanica*, *Spin. Ann. Soc. Ent. France*, (2) i. p. 111 (1843).

*Hab.* Spain, Portugal.

14. *Megalodontes phœnicus*.

*Tarpa phœnicia*, *St.-Farg. Mon. Tenth.* p. 15, n. 42 (1823).

*Hab.* Syria.

15. *Megalodontes quinquecinctus*.

*Tarpa quinquecincta*, *Klug, Ent. Monogr.* p. 195, n. 6 (1824).

*Hab.* Turkey.

16. *Megalodontes olivieri*.

*Tarpa olivieri*, *Brullé, Hym.* iv. p. 660, pl. xlv. fig. 6 (1846);  
*Zaddach, Schrift. Königsb.* vi. p. 198 (1865).

*Hab.* Bagdad.

17. *Megalodontes coronatus*.

*Tarpa coronata*, *Zaddach, Schrift. Königsb.* vi. p. 198 (1865).

*Hab.* Europe.

18. *Megalodontes exornatus*.

*Tarpa exornata*, *Zaddach, Schrift. Königsb.* vi. p. 199 (1865).

*Hab.* Europe?

19. *Megalodontes judaicus*.

*Tarpa judaica*, *St.-Farg. Mon. Tenth.* p. 17, n. 47 (1823).

*Hab.* Syria.

20. *Megalodontes cæsariensis*.

*Tarpa cæsariensis*, *St.-Farg. Mon. Tenth.* p. 17, n. 48 (1823).

*Hab.* Syria\*.

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\* Scarcely differs from *M. judaicus* by the description, and is perhaps not truly distinct.



21. *Megalodontes leucostictus*.

*Tarpa leucosticta*, *Zaddach, Schrift. Königsb.* vi. p. 200 (1865).

*Hab.* Syria.

- |       |             |
|-------|-------------|
| a. ♂. | Syria.      |
| b. ♂. | Jerusalem*. |

22. *Megalodontes albicinctus*.

*Tarpa albicincta*, *Tischb. Stett. ent. Zeit.* xxxvii. p. 55 (1876).

*Hab.* Macedonia.

23. *Megalodontes levaillantii*.

*Tarpa levaillantii*, *Luc. Expl. Alg.* iii. p. 343, pl. xix. fig. 10 (1849).

*Hab.* Algeria.

- |            |          |
|------------|----------|
| a, b. ♂ ♀. | Algeria. |
|------------|----------|

24. *Megalodontes loewii*.

*Tarpa loewii*, *Tischb. Stett. ent. Zeit.* xxxvii. p. 56 (1876).

*Hab.* Patora.

25. *Megalodontes nitens*.

*Tarpa nitens*, *Freymuth, Protocol Soc. d'antr. Mosc.* viii. p. 222 (1870).

*Hab.* Zer-Affshan.

26. *Megalodontes skorniakowskii*.

*Tarpa skorniakowskii*, *Freymuth, Protocol Soc. d'antr. Mosc.* viii. p. 221 (1870).

*Hab.* Samarcand.

27. *Megalodontes speciosus*.

*Tarpa speciosa*, *Mocs. Term. füzetek*, i. p. 88 (1877); *André, Spec. Hym.* i. p. 475, pl. xxii. fig. 2 (1881).

*Hab.* Bosnia.

28. *Megalodontes flabellicornis*.

*Tarpa flabellicornis*, *Germ. Faun. Ins. Eur.* Heft 12, pl. xxi. (1817).

*Hab.* Illyria.

---

\* The two specimens here enumerated are not precisely alike; in the second the white markings are more obsolete above, and the hind legs are entirely black, except the upper surface of the hind coxæ. In the first specimen the abdomen is white beneath; in the second it is only white at the tip beneath, the basal portion being black, with the segments more distinctly bordered with white than above. I suspect that this species will prove to be the male of *M. cæsa-riensis* or of *M. judaicus*.

## 108. PAMPHILIUS.

Pamphilus, *Latr. Hist. Nat. Crust. Ins.* iii. p. 303 (1802).

Lyda, *Fabr. Syst. Piez.* p. 43 (1804).

Cephalcia, *Panz. Faun. Germ.* Heft 86, pl. ix. (1805).

Cephaleia, *Jurine, Hymenoptères*, p. 67 (1807).

Lyda et Acanthocnema, *Costa, Faun. Nap., Lid.* p. 2 (1860).

A. *Europæo-Asiatic Species, including Western and Northern Asia, China and Japan.*

## 1. Pamphilus nemoralis.

Tenthredo nemoralis, *Linn. Syst. Nat.* i. p. 558, n. 29 (1758); *id. Faun. Suec.* p. 394 (1761).

Tenthredo stellata, *Christ, Insekten*, p. 457, pl. li. fig. 4 (1791).

Lyda stellata, *Zadd. Schrift. Königsb.* vi. p. 113 (1865).

Lyda nemoralis, *Thoms. Hym. Scand.* i. p. 301 (1871).

Tenthredo pratensis, *Fabr. Ent. Syst.* ii. p. 122, n. 74 (1793).

Lyda pratensis, *Klug, Berl. Mag.* ii. p. 274, n. 4 (1807).

Lyda populi, *Fall. Vetensk. Handl.* xxix. p. 222, n. 5 (1808).

*Hab.* Europe.

a-e. ♂ ♀.

Germany.

J. F. Ruthe.

f-h. ♂ ♀.

Germany.

Dr. Klug.

i, k. ♂ ♀.

Munich.

H. Buchecker.

## 2. Pamphilus laricis.

Lyda laricis, *Gir. Verh. z.-b. Wien*, xi. p. 91, pl. ii. A. fig. 2 (1861);

*Zadd. Schrift. Königsb.* vi. p. 115 (1865).

*Hab.* Austria.

## 3. Pamphilus populi.

Lyda populi, *Zadd. (nec Linn.) Schrift. Königsb.* vi. p. 117, pl. iv. figs. 1 & 2 (1865).

*Hab.* Bannat.

## 4. Pamphilus erythrocephalus.

Tenthredo erythrocephala, *Linn. Syst. Nat.* i. p. 558, n. 26 (1758); *id. Faun. Suec.* p. 394 (1761); *Thoms. Hym. Scand.* i. p. 300 (1871).

Tenthredo flaviceps, *Retz. Gen. Sp. Ins.* p. 74, n. 320 (1783).

Lyda erythrocephala, *Klug, Berl. Mag.* ii. p. 280, n. 16 (1807).

♂. Tenthredo populi, *Linn. Syst. Nat.* i. p. 927, n. 44 (1767).

*Hab.* Europe.

a. ♀.

Britain.

J. F. Stephens.

b, c. ♂ ♀.

Britain.

d-g. ♂ ♀.

Germany.

J. F. Ruthe.

h. ♀.

Munich.

H. Buchecker.

i-k. ♂ ♀.

Europe.

5. *Pamphilius flaviceps*.

*Tenthredo flaviceps*, *Retz. Gen. Sp. Ins.* p. 74, n. 320 (1783).  
*Lyda flaviceps*, *Zadd. Schrift. Königsb.* vi. p. 121 (1865); *Thoms. Hym. Scand.* i. p. 300 (1871).  
*Lyda cyanea*, *Khug, Berl. Mag.* ii. p. 281, n. 17 (1807).

*Hab.* Europe.

a. ♀. Germany. J. F. Ruthe.

6. *Pamphilius pumilionis*.

*Lyda pumilionis*, *Giraud, Verh. z.-b. Wien*, xi. p. 90, pl. ii. A. fig. 1 (1861).

*Hab.* Austria.

7. *Pamphilius campestris*.

*Tenthredo campestris*, *Linn. Syst. Nat.* i. p. 557, n. 18 (1858); *id. Faun. Suec.* p. 392 (1861).  
*Lyda campestris*, *Khug, Berl. Mag.* ii. p. 273, pl. vii. fig. 2 (1807); *Zaddach, Schrift. Königsb.* vi. p. 123 (1865).  
*Tenthredo hieroglyphica*, *Christ, Ins.* p. 459, pl. li. fig. 5 (1791).  
*Lyda bimaculata*, *Taschenb. Berl. ent. Zeitschr.* v. p. 194 (1861).

*Hab.* Europe.

a, b. ♂ ♀. Germany. J. F. Ruthe.  
 c. ♂. Europe.

8. *Pamphilius arvensis*.

*Cephalcia arvensis*, *Panz. Faun. Germ.* Heft 86, pl. ix. (1805).  
*Lyda arvensis*, *Khug, Berl. Mag.* ii. p. 282, n. 21 (1807); *Zaddach, Schrift. Königsb.* vi. p. 126, pl. iv. figs. 4, 6 (1865).

*Hab.* Europe.

9. *Pamphilius saltuum*.

*Tenthredo saltuum*, *Linn. Syst. Nat.* i. p. 559, n. 33 (1758); *id. Faun. Suec.* p. 395 (1761).  
*Lyda saltuum*, *Thoms. Hym. Scand.* i. p. 302 (1871).  
*Lyda hypotrophica*, p., *Hart. Convers. Lex.* ed. 2, p. 983 (1834); *id. Blattw.* p. 336, n. 8, pl. vii. figs. 1-15 (1837).  
*Lyda hypotrophica*, var. 1, *Zaddach, Schrift. Königsb.* vi. p. 138, pl. iv. fig. 5 (1865).  
*Cephaleia testacea*, *Gimmerthal, Bull. Mosc.* ix. p. 433 (1836).

*Hab.* Central Europe.

a. ♀. Europe.

10. *Pamphilius scutellaris*.

*Lyda scutellaris*, *Thoms. Hym. Scand.* i. p. 303 (1871).  
*Lyda hypotrophica*, p., *Hart. Convers. Lex.* ed. 2, p. 983 (1834); *id. Blattw.* p. 336, n. 8 (1837).

*Lyda hypotrophica*, var. 2, *Zaddach, Schrift. Königsb.* vi. p. 138 (1865).  
*Lyda klugii*, ♂, *Hartig, Blattw.* p. 335, n. 7 (1837).

*Hab.* Europe.

|                  |         |               |
|------------------|---------|---------------|
| <i>a.</i> ♀.     | Sweden. |               |
| <i>b-f.</i> ♂ ♀. | Munich. | H. Buchecker. |
| <i>g.</i> ♂.     | Zurich. | H. Buchecker. |

### 11. *Pamphilus saxicola*.

*Lyda saxicola*, *Hart. Blattw.* p. 339, n. 9 (1837).

*Hab.* Central Europe.

|              |              |                             |
|--------------|--------------|-----------------------------|
| <i>a.</i> ♂. | Austria (♀). | Prof. Megerle von Mühlfeld. |
| <i>b.</i> ♂. | Munich.      | H. Buchecker.               |

### 12. *Pamphilus alpinus*.

*Lyda alpina*, *Klug, Berl. Mag.* ii. p. 281, n. 18 (1807); *Hart. Blattw.* p. 340, n. 11 (1837).

*Lyda irrorata*, *Thoms. Hym. Scand.* i. p. 304 (1871).

*Lyda vafra*, *Fallén, Vetensk. Handl.* xxix. p. 224 (1808).

*Lyda arvensis*, var. 3, ♀, *Zaddach, Schrift. Königsb.* iii. p. 130 (1865).

*Hab.* Germany, Sweden.

### 13. *Pamphilus falleni*.

*Lyda falleni*, *Dalm. Anal. Ent.* p. 95, n. 5 (1823); *Thoms. Hym. Scand.* i. p. 305 (1871).

*Lyda abietina*, *Hart. Blattw.* p. 342, n. 12 (1837).

*Lyda annullata*, *Hart. Blattw.* p. 343, n. 13 (1837).

*Lyda arvensis*, var. 3 (♂), 5-8 (♀), *Zaddach, Schrift. Königsb.* vi. pp. 130-133 (1865).

*Hab.* Germany, Sweden.

|              |         |               |
|--------------|---------|---------------|
| <i>a.</i> ♂. | Munich. | H. Buchecker. |
|--------------|---------|---------------|

### 14. *Pamphilus klugii*.

*Lyda klugii* ♀, *Hart. Blattw.* p. 335, n. 7 (1837).

*Hab.* Germany.

### 15. *Pamphilus erythrogaster*.

*Lyda erythrogaster*, *Hart. Blattw.* p. 339, n. 10 (1837); *Zaddach, Schrift. Königsb.* vi. p. 142 (1865).

*Hab.* Central Europe.

|                |              |                             |
|----------------|--------------|-----------------------------|
| <i>a-c.</i> ♂. | Austria (♀). | Prof. Megerle von Mühlfeld. |
| <i>d-g.</i> ♀. | Munich.      | H. Buchecker.               |

16. *Pamphilus hartigii*.

*Lyda hartigii*, *Bremi, Stett. ent. Zeit.* x. p. 92 (1849); *Zaddach, Schrift. Königsb.* vi. p. 143 (1865).

*Hab.* Aargau.

17. *Pamphilus reticulatus*.

*Tenthredo reticulata*, *Linn. Syst. Nat.* i. p. 558, n. 31 (1758); *Faun. Suec.* p. 394 (1761).

*Lyda reticulata*, *Klug, Berl. Mag.* ii. p. 272, n. 1 (1808); *Zaddach, Schrift. Königsb.* vi. p. 272, n. 1, pl. iv. fig. 3 (1865); *Thoms. Hym. Scand.* i. p. 300 (1871).

*Cephaleia clarkii*, *Jurine, Hym.* p. 67, pl. vi. gen. 7 (1807).

*Hab.* Europe.

a-c. ♂ ♀.  
d. ♀.

Germany.  
Europe.

J. F. Ruthe.

18. *Pamphilus faustus*.

*Lyda fausta*, *Klug, Berl. Mag.* ii. p. 277, n. 10, pl. vii. fig. 5 (1807); *Zaddach, Schrift. Königsb.* vi. p. 146 (1865).

*Hab.* Europe.

a. ♂.  
b. ♀.  
c. ♀.

Austria (?).  
Albania.  
Europe.

Prof. Megerle von Mühlfeld.  
Sir S. S. Saunders.

19. *Pamphilus mandibularis*.

*Lyda mandibularis*, *Zaddach, Schrift. Königsb.* vi. p. 147 (1865).

*Lyda parisiensis*, *Gir. Ann. Soc. Ent. France*, (4) ix. p. 474, pl. xii. fig. 2 (1869).

*Hab.* France, Germany.

20. *Pamphilus flaviventris*.

*Tenthredo flaviventris*, *Retz. Gen. Sp. Ins.* p. 74, n. 312 (1783).

*Lyda flaviventris*, *Fall. Vetensk. Handl.* xxix. p. 223 (1808); *Thoms. Hym. Scand.* i. p. 306 (1871).

*Lyda albifrons*, *Fall. Vetensk. Handl.* xxix. p. 225 (1808).

*Tenthredo lutescens*, *Panz. Faun. Germ.* Heft 107, pl. vii. (1809).

*Lyda clypeata*, *Klug, Berl. Mag.* ii. p. 279, n. 14 (1807).

*Lyda fasciata*, *Curt. Brit. Ent.* viii. pl. cccclxxxi. (1831).

*Psen pyri*, *Schränk, Fauna Boica*, ii. pt. 2, p. 255 (1802).

*Lyda pyri*, *Zaddach, Schrift. Königsb.* vi. p. 147 (1865).

*Hab.* Europe.

a. ♂.  
b-d. ♂ ♀  
e-h. ♂ ♀.  
i, k. ♀.

Britain.  
Britain.  
Germany.  
Europe.

J. F. Stephens.

J. F. Ruthe.

21. *Pamphilius punctatus*.

*Tenthredo punctata*, *Fabr. Ent. Syst. Suppl.* p. 218 (1798); *Coqueb. Ic. Ins.* p. 17, pl. iii. fig. 9 (1799).

*Psen caprifolii*, *Schrank, Faun. Boica*, ii. pt. 2, p. 257 (1802).

*Lyda lucorum*, *Fall. Vetensk. Handl.* xxix. p. 222 (1808).

*Lyda punctata*, *Thoms. Hym. Scand.* i. p. 306 (1871).

*Lyda nemoralis*, *Zaddach, Schrift. Königsb.* vi. p. 150 (1865).

♂. *Lyda maculifrons*, *Vollenh. Bouwst. Faun. Ned.* ii. p. 279 (1858).

*Hab.* Europe.

a. ♀.

Europe.

22. *Pamphilius marginatus*.

*Lyda marginata*, *St.-Farg. Mon. Tenth.* p. 12, n. 34 (1823); *Zaddach, Schrift. Königsb.* vi. p. 153, pl. iv. fig. 11 (1865); *Thoms. Hym. Scand.* i. p. 310 (1871).

*Lyda bicolor*, *Herr.-Schäff. Deutschl. Ins.* Heft 120, pl. xiv. (1829-44).

*Lyda ratzeburgi*, *Ratzeb. Forst. Insect.* iii. p. 80 (1844).

*Hab.* Central Europe.

23. *Pamphilius sylvarum*.

(Plate XIII. fig. 6.)

*Lyda sylvarum*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 100 (1836).

*Lyda fulvipennis*, *Zaddach, Schrift. Königsb.* vi. p. 155, pl. iv. figs. 14 & 15 (1865).

Exp. al. 8 lin., long. corp. 4 lin.

Head pale ochreous; antennæ reddish, 19-jointed, the first two joints spotted with black; two black spots below the antennæ, and six on the vertex; tips of the mandibles reddish, shading into black. Thorax pale ochreous, with a large black spot on each side at the base of the fore wings, and three in the middle; frontal lobe edged with black, and the metathorax and hinder edges of the mesothorax black; scutellum black, edged with pale ochreous. Abdomen black above, edged at the sides and tip with pale ochreous; each segment very narrowly edged with ochreous behind. Middle of pectus black, and sides with irregular black markings; otherwise the under surface is still paler ochreous than above, though the legs are darker, slightly inclining to luteous; femora with a black line above. Wings yellowish hyaline, with yellow nervures and stigma.

*Hab.* Central Europe.

a. ♀. (Type.)

Near London.

J. F. Stephens.

b. ♀.

Munich.

H. Buchecker.

24. *Pamphilius nigricornis*.

*Lyda nigricornis*, *Vollenh. Bouwst. Faun. Ned.* ii. p. 279 (1858); *Zaddach, Schrift. Königsb.* vi. p. 156 (1865).

*Hab.* Holland.

25. *Pamphilius depressus*.

*Tenthredo depressa*, *Vill. Ent. Linn.* iii. p. 124, n. 31 (1779);  
*Panz. Faun. Germ.* Heft 65, pl. xi. (1793).

*Lyda depressa*, *Klug, Berl. Mag.* ii. p. 274, n. 5 (1807); *Zaddach, Schrift. Königsb.* vi. p. 157 (1865); *Thoms. Hym. Scand.* i. p. 312 (1871).

*Lyda vafra*, *Zett. Ins. Lapp.* p. 355, n. 3 (1838).

*Hab.* Europe.

|                  |           |                 |
|------------------|-----------|-----------------|
| <i>a-d.</i> ♂ ♀. | Britain.  | J. F. Stephens. |
| <i>e-g.</i> ♂ ♀. | Britain.  |                 |
| <i>h.</i> ♀.     | Scotland. | J. Foxcroft.    |
| <i>i-t.</i> ♂ ♀. | Germany.  | J. F. Ruthe.    |
| <i>u, v.</i> ♂.  | Munich.   | H. Buchecker.   |
| <i>w.</i> ♀.     | Zurich.   | H. Buchecker.   |

26. *Pamphilius albopictus*.

*Lyda albopicta*, *Thoms. Hym. Scand.* i. p. 312 (1871).

*Hab.* Sweden.

27. *Pamphilius vafer*.

*Tenthredo vafra*, *Linn. Syst. Nat.* i. p. 927, n. 45 (1767).

*Lyda vafra*, *Thoms. Hym. Scand.* i. p. 311 (1871).

*Lyda latifrons*, *Zaddach, Schrift. Königsb.* vi. p. 159, pl. iv. fig. 18 (1865).

*Hab.* N. Germany, Sweden.

28. *Pamphilius stramineipes*.

*Lyda stramineipes*, *Hart. Blattw.* p. 347, n. 23 (1837); *Zaddach, Schrift. Königsb.* vi. p. 160 (1865).

*Hab.* Central Europe.

|              |          |
|--------------|----------|
| <i>a.</i> ♀. | Britain. |
|--------------|----------|

29. *Pamphilius pallipes*.

*Lyda pallipes*, *Zett. Ins. Lapp.* p. 355, n. 4 (1838); *Thoms. Hym. Scand.* i. p. 313 (1871).

*Lyda flavipes*, *Zett. Ins. Lapp.* p. 355, n. 5 (1838).

*Lyda variegata*, *Zaddach, Schrift. Königsb.* vi. p. 161 (1865).

*Hab.* Europe.

|                  |          |                 |
|------------------|----------|-----------------|
| <i>a-e.</i> ♂ ♀. | Britain. | J. F. Stephens. |
|------------------|----------|-----------------|

30. *Pamphilius infidus*.

*Lyda infida*, *Zaddach, Schrift. Königsb.* vi. p. 162 (1865).

*Hab.* Ural, Kamtchatka.

31. *Pamphilius cingulatus*.

*Pamphilius cingulatus*, *Latr. Enc. Méth.* viii. p. 690, n. 15 (1811).

*Lyda cingulata*, *St.-Farg. Mon. Tenth.* p. 9 (1823).

*Lyda suffusa*, *Hart. Blattw.* p. 345, n. 19 (1837); *Thoms. Hym. Scand.* i. p. 313 (1871).

*Lyda balteata*, *Zaddach, Schrift. Königsb.* vi. p. 163 (1863).

*Hab.* Germany.

32. *Pamphilius histrio*.

*Pamphilius histrio*, *Latr. Enc. Méth.* viii. p. 689, n. 12 (1811).

*Lyda histrio*, *St.-Farg. Mon. Tenth.* p. 13, n. 38 (1823); *Zaddach, Schrift. Königsb.* vi. p. 164, pl. iv. figs. 14 & 15 (1865).

*Lyda flaviventris*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 101 (1835).

*Hab.* Europe.

*a-c.* ♂ ♀.

Germany.

J. F. Ruthe.

*d.* ♀.

Munich.

H. Buchecker.

33. *Pamphilius latifrons*.

*Lyda latifrons*, *Fall. Vetensk. Handl.* xxix. p. 226, n. 11 (1808); *Thoms. Hym. Scand.* i. p. 309 (1871).

*Lyda maculosa*, *Zaddach, Schrift. Königsb.* vi. p. 166, pl. iv. figs. 16 & 17 (1865).

*Hab.* Europe.

*a, b.* ♀.

Britain.

J. F. Stephens.

*c.* ♀.

Sweden.

34. *Pamphilius gyllenhalii*.

*Lyda gyllenhalii*, *Dahlb. Clavis*, fig. 1 (1835); *Zaddach, Schrift. Königsb.* vi. p. 167, pl. iv. figs. 19, 20 (1865); *Thoms. Hym. Scand.* i. p. 309 (1871).

*Lyda latifrons*, var. *b*, *Fall. Vetensk. Handl.* xxix. p. 226, n. 11 (1808).

*Hab.* N. Germany, Sweden.

35. *Pamphilius hortorum*.

*Lyda hortorum*, *Klug, Berl. Mag.* ii. p. 278, n. 12 (1807); *Herr.-Schiff. Deutschl. Ins.* Heft 119, pl. ix (1829-44); *Zaddach, Schrift. Königsb.* vi. p. 169 (1865).

*Lyda balteata*, *Fall. Vetensk. Handl.* xxix. p. 225, n. 9 (1808); *Thoms. Hym. Scand.* i. p. 314 (1871).

*Hab.* Europe.

*a-i.* ♂ ♀.

Britain.

J. F. Stephens, Esq.

*k, l.* ♀.

Britain.

*m, n.* ♂ ♀.

Germany.

J. F. Ruthe.

*o-q.* ♂ ♀.

Munich.

H. Buchecker.

*r.* ♀.

Europe.



36. *Pamphilus arbuti*.

*Lyda arbuti*, Zaddach, *Schrift. Königsb.* vi. p. 170 (1865).

*Hab.* Europe?

37. *Pamphilus jucundus*.

*Lyda jucunda*, Eversm. *Bull. Mosc.* xx. pt. i. p. 61 (1847); Zaddach, *Schrift. Königsb.* vi. p. 171 (1865).

*Hab.* Bavaria, Russia.

38. *Pamphilus semicinctus*.

*Lyda semicincta*, Zaddach, *Schrift. Königsb.* vi. p. 171 (1865).

*Hab.* Europe.

39. *Pamphilus aurantiacus*.

*Lyda aurantiaca*, Giraud, *Verh. z.-b. Wien*, vii. p. 183 (1857).

*Hab.* Tyrol, Carinthia.

40. *Pamphilus arbustorum*.

*Tenthredo lucorum*, Fabr. *Syst. Ent.* p. 324, n. 41 (1775).

*Tenthredo arbustorum*, Fabr. *Ent. Syst.* ii. p. 123, n. 78 (1793).

*Lyda arbustorum*, Klug, *Berl. Mag.* ii. p. 282, n. 19 (1807); Zaddach, *Schrift. Königsb.* vi. p. 173 (1865); Thoms. *Hym. Scand.* i. p. 308 (1871).

*Hab.* Europe.

41. *Pamphilus neglectus*.

*Lyda neglecta*, Zaddach, *Schrift. Königsb.* vi. p. 174 (1865).

*Hab.* Austria, Bavaria.

42. *Pamphilus inanitus*.

*Tenthredo inanita*, Vill. *Ent. Linn.* iii. p. 125, n. 137, pl. vii. fig. 11 (1789).

*Lyda inanita*, Herr.-Schäff. *Deutschl. Ins.* Heft 120, pl. xv. (1829-44); Zaddach, *Schrift. Königsb.* vi. p. 174 (1865).

*Lyda inanis*, Klug, *Berl. Mag.* ii. p. 278, n. 13 (1807); Thoms. *Hym. Scand.* i. p. 308 (1871).

*Lyda fallax*, St.-Farg. *Mon. Tenth.* p. 13, n. 37 (1823).

*Hab.* Europe.

a-m. ♂ ♀.  
n-g. ♂ ♀.  
r. ♀.

Britain.  
Germany.  
Zurich.

J. F. Stephens.  
J. F. Ruthe.  
H. Buchecker.  
z 2

43. *Pamphilus alternans*.

*Lyda alternans*, Costa, *Faun. Nap., Lid.* p. 3, pl. lxxviii. fig. 6 (1860).

*Hab.* Naples.

44. *Pamphilus hilaris*.

*Lyda hilaris*, Eversm. *Bull. Mosc.* xx. pt. 1. p. 61 (1847).

*Hab.* Ural.

45. *Pamphilus betulæ*.

*Tenthredo betulæ*, Linn. *Syst. Nat.* i. p. 509, n. 32 (1758); *Faun. Suec.* p. 394 (1761).

*Cephalcia betulæ*, Panz. *Faun. Germ.* Heft 87, pl. xviii. (1805).

*Lyda betulæ*, Klug, *Berl. Mag.* ii. p. 273, n. 5 (1807); Zaddach, *Schrift. Königsb.* vi. p. 176 (1865); Thoms. *Hym. Scand.* i. p. 307 (1871).

*Tenthredo fulva*, Retz. *Gen. Spec. Ins.* p. 74, n. 321 (1783).

*Lyda aurita*, Klug, *Berl. Mag.* ii. p. 275, n. 6, pl. vii. fig. 3 (1807).

*Hab.* Europe.

|           |          |                 |
|-----------|----------|-----------------|
| a. ♀.     | Britain. | J. F. Stephens. |
| v. ♂.     | Britain. |                 |
| c-h. ♂ ♀. | Germany. | J. F. Ruthe.    |

46. *Pamphilus sylvaticus*.

*Tenthredo sylvatica*, Linn. *Syst. Nat.* i. p. 558, n. 28 (1758); *Faun. Suec.* p. 394 (1761).

*Lyda sylvatica*, Klug, *Berl. Mag.* ii. p. 276, n. 8 (1807); Zaddach, *Schrift. Königsb.* vi. p. 180 (1865); Thoms. *Hym. Scand.* i. p. 307 (1871).

*Tenthredo nemorum*, Fabr. *Ent. Syst.* ii. p. 111, n. 24 (1793).

*Tenthredo fulvipes*, Retz. *Gen. Spec. Ins.* p. 74, n. 323 (1783).

*Lyda fumipennis*, Curt. *Brit. Ent.* viii. fol. 381, p. 2 (1831).

*Lyda stigma*, Steph. *Ill. Brit. Ent., Mand.* vii. p. 97 (1835).

*Hab.* Europe.

|            |          |                 |
|------------|----------|-----------------|
| a-h. ♂ ♀.  | Britain. | J. F. Stephens. |
| i-l. ♀.    | Britain. |                 |
| m-r. ♂ ♀.  | Germany. | J. F. Ruthe.    |
| s-w. ♂ ♀.  | Zurich.  | H. Buchecker.   |
| x, y. ♂ ♀. | Europe.  |                 |

47. *Pamphilus adustus*.

*Lyda adusta*, Dietrich, *Mith. Schweiz. ent. Ges.* ii. p. 355 (1868).

*Hab.* Zurich.

48. *Pamphilus annulicornis*.

*Lyda annulicornis*, Hart. *Blattw.* p. 343, n. 14 (1837).

*Hab.* Harz.

49. *Pamphilius drupacearum*.

*Lyda drupacearum*, *Nördlinger, Kleine Feinde*, p. 398 (1855).

*Hab.* Holland, Germany.

50. *Pamphilius fasciatipennis*.

*Lyda fasciatipennis*, *Costa, Ann. Mus. Nap.* ii. p. 97 (1864).

*Hab.* North Italy.

51. *Pamphilius rubi*.

*Tenthredo rubi*, *Fourcr. Ent. Par.* ii. p. 177 (1785).

*Hab.* Paris.

52. *Pamphilius varius*.

*Lyda varia*, *St.-Farg. Mon. Tenth.* p. 9, n. 25 (1823).

*Hab.* Paris.

53. *Pamphilius maculipennis*.

*Lyda maculipennis*, *Tischb. Stett. ent. Zeit.* xxxvii. p. 57 (1876).

*Hab.* Smyrna.

54. *Pamphilius flagellicornis*.

(Plate XIII. fig. 9.)

*Lyda flagellicornis*, *Smith, Ann. Nat. Hist.* (3) vi. p. 255 (1860).

Exp. al. 1 poll., long. corp. 5 lin.

Dirty yellow, smooth and shining; sides of the prothorax hairy; ocelli placed on a blackish ground, and the middle of the pectus black; antennæ setaceous, black, 34-jointed, first two joints reddish, and eight or nine of the middle joints yellow. Wings pale yellowish hyaline, with yellow nervures; apical third brown, with black nervures; lanceolate cell almost contracted.

*Hab.* North China.

*a, b.* ♀. (Types.)

North China.

R. Fortun

55. *Pamphilius flavifrons*.

(Plate XIII. fig. 7.)

Exp. al. 8 lin., long. corp. 4 lin.

Closely allied to *P. cingulatus*. Black, with yellow and reddish markings. Head coarsely punctured in front, and smooth behind;

antennæ dark chestnut, with the basal joint black. Face yellow, as far as the middle of the eyes; a short black stripe running down to the base of each antenna; cheeks broadly yellow, the colour bifurcating above; two yellow lines on the occiput running to the eyes, and two short yellow lines within them at the base of the usual grooves. Prothorax, a divided triangular spot in front of mesothorax, scutellum, and postscutellum yellow. Pectus black, with two yellow spots before the front coxæ and three large ones on the sides; legs yellowish, shading into rufous-brown at the extremities. Abdomen black above, segments 3-5 and the terminal segment mostly reddish; beneath dull reddish or yellowish, finely punctured, with a black band on the fourth and a narrower one on the fifth segment, and the last segment almost wholly yellow.

*Hab.* Amoor.

*a.* ♂. (Type.)

Amoor.

### 56. *Pamphilus venustus*.

(Plate XIII. fig. 11.)

*Lyda venustus*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 384.

Exp. al. 1 poll. 1 lin., long. corp. 6 lin.

Black; segments 2-5 of the abdomen dull orange. Head and thorax closely punctured; face and cheeks reddish; clypeus, part of the outer edge of the mandibles, and the palpi yellow; a yellow stripe behind each eye, extended to the occiput, and two short grooves between the aforesaid stripes, yellow; antennæ with the basal joint yellowish, then reddish to two thirds of their length, and the apical third blackish; prothorax, scutellum, and postscutellum yellow; legs ochreous, femora yellow; abdomen beneath with three yellow transverse stripes, one on the fifth segment on an orange ground, and two on the following black segments. Wings yellowish hyaline, with piceous nervures, tips clearer; stigma black, with a yellow spot on the inside; costal cell clear, edged with yellowish in front.

*Hab.* Japan.

*a.* ♀. (Type.)

Hakodadi.

H. Whitely, Esq.

### 57. *Pamphilus volatilis*.

(Plate XIII. fig. 13.)

*Lyda volatilis*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 384.

Exp. al. 9 lin., long. corp.  $4\frac{1}{2}$  lin.

Black; clypeus, cheeks, three spots between the eyes, a curved line behind them, edges of collar, tegulæ, a triangular spot in front

of thorax, divided in the middle, scutellum, spot on pleura, and sides and transverse stripes on abdomen pale yellowish white; legs darker, hind tarsi blackish.

*Hab.* Japan.

*a.* ♀. (Type.)

North Japan.

### 58. *Pamphilius smithii*.

(Plate XIII. fig. 14.)

*Lyda latifrons*, *Smith (nec Fall.)*, *Trans. Ent. Soc. Lond.* 1874, p. 385.

*Exp.* al. 10 lin., long. corp. 5 lin.

Black; clypeus, palpi, and base of mandibles yellow; cheeks yellow, connected on one side with a yellow line which runs up from the corners of the clypeus between the eyes and antennæ, and on the other with a stripe curving round the back of the head, sending off a branch to the back of the eyes, and nearly meeting the other; between the antennæ is a square yellow spot. Edges of collar; a triangular spot in front of thorax, scutellum, postscutellum, two large stripes on the sides of the pectus, and legs pale yellow. Abdomen with all the segments narrowly bordered with yellow above; sides and undersurface mostly yellow, except at base. Wings clear hyaline; stigma black; nervures black or piceous.

*Hab.* Japan.

*a.* ♀. (Type.)

Japan.

### 59. *Pamphilius sulphureipes*.

(Plate XIII. fig. 12.)

*Exp.* al. 11 lin., long. corp. 5 lin.

Black; palpi yellow, and base of the mandibles obscurely yellowish; from the back of the head runs a sulphur-yellow line on each side, curving forwards within the eyes; a double yellow spot between or rather just above the antennæ; two deep grooves on the vertex, scarcely marked with yellow; tegulæ and V-spot sulphur-yellow; scutellum and postscutellum darker yellow; legs uniform sulphur-yellow, shading into greenish at the ends of the tibiæ, with only the tips of the claws black; hinder half of segments 3-6 of the abdomen dull yellow beneath. Wings clear hyaline, with a very slight yellowish tinge; nervures and stigma piceous; second brachial cell with incomplete cross nervure.

*Hab.* Amoor.

*a.* ♂. (Type.)

Amoor,

B. *North-American and Mexican Species.*60. **Pamphilius ochroceras.**

*Lyda ochroceras*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 333 (1869).

*Hab.* Massachusetts.

61. **Pamphilius brunniceps.**

*Lyda brunniceps*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 29 (1880)

*Hab.* White Mountains.

62. **Pamphilius brunnicans.**

*Lyda brunnicans*, *Nort. Proc. Ent. Soc. Phil.* iii. p. 15 (1864); *id.*  
*Trans. Amer. Ent. Soc.* ii. p. 333 (1869).

*Hab.* Rocky Mountains.

63. **Pamphilius discolor.**

*Lyda discolor*, *Cresson, Trans. Amer. Ent. Soc.* viii. p. 26 (1880)

*Hab.* North America.

64. **Pamphilius verticalis.**

*Lyda verticalis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 26 (1880).

*Hab.* California.

65. **Pamphilius similis.**

*Lyda similis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 27 (1880).

*Hab.* Nevada.

66. **Pamphilius morrisoni.**

*Lyda morrisoni*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 27 (1880).

*Hab.* Nevada.

67. **Pamphilius atripes.**

*Lyda atripes*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 27 (1880).

*Hab.* North Carolina.

68. **Pamphilius luteomaculatus.**

*Lyda luteomaculata*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 28 (1880).

*Hab.* White Mountains.

69. **Pamphilius circumcinctus.**

*Lyda circumcincta*, *Klug, Berl. Mag.* ii. p. 279, n. 14 (1807).

*Lyda maculiventris*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 333 (1869).

*Hab.* Georgia.

a. ♂.

Georgia.

Probably from Abbot's  
collection.

**70. Pamphilius marginiventris.**

*Lyda marginiventris*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 29 (1880).  
*Hab.* New York.

**71. Pamphilius albomarginatus.**

*Lyda albomarginata*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 30 (1880).  
*Hab.* Colorado.

**72. Pamphilius chicoutimiensis.**

*Lyda chicoutimiensis*, *Huart, Nat. Canad.* xi. p. 149 (1879).  
*Hab.* Canada.

**73. Pamphilius nigritus.**

*Lyda nigrita*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 30 (1880).  
*Hab.* Nevada.

**74. Pamphilius atratus.**

*Lyda atrata*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 30 (1880).  
*Hab.* Nevada.

**75. Pamphilius pöppigii.**

*Lyda pöppigii*, *Zadd. Schrift. Königsb.* vi. p. 123 (1865).  
*Hab.* North America.

**76. Pamphilius nevadensis.**

*Lyda nevadensis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 28 (1880).  
*Hab.* Nevada.

**77. Pamphilius montivagus.**

*Lyda montivaga*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 28 (1880).  
*Hab.* Nevada.

**78. Pamphilius nigripes.**

*Lyda nigripes*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 28 (1880).  
*Hab.* Nevada.

**79. Pamphilius rufiventris.**

*Lyda rufiventris*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 29 (1880).  
*Hab.* Nevada.

**80. Pamphilius bucephalus.**

*Lyda bucephala*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 29 (1880).  
*Hab.* California.

81. *Pamphilius terminalis*.

*Lyda terminalis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 29 (1880).

*Hab.* Nevada.

82. *Pamphilius apicalis*.

*Lyda apicalis*, *Westw. Thes. ent. Oxon.* p. 111, pl. xx. fig. 8 (1874).

*Hab.* North America.

*a.* ♂.

83. *Pamphilius frontalis*.

*Lyda frontalis*, *Westw. Thes. ent. Oxon.* p. 110, pl. xx. fig. 7 (1874).

*Hab.* North America.

*a.* ♂.

84. *Pamphilius creditus*.

*Lyda credita*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 334 (1869).

*Hab.* Mexico.

85. *Pamphilius bicoloratus*.

*Lyda bicolorata*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 334 (1869).

*Hab.* New York.

86. *Pamphilius tessellatus*.

*Lyda tessellata*, *Klug, Berl. Mag.* ii. p. 276, n. 7, pl. vii. fig. 4 (1807);  
*Zadd. Schrift. Königsb.* vi. p. 117 (1863); *Nort. Trans. Amer. Ent.*  
*Soc.* ii. p. 334 (1869).

*Lyda abdominalis*, *Nort. Proc. Ent. Soc. Phil.* i. p. 199 (1862).

*Hab.* United States.

87. *Pamphilius variegatus*.

*Lyda variegata*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 335 (1869).

*Hab.* Cordova, Mexico.

88. *Pamphilius fasciatus*.

*Lyda fasciata*, *Nort. Proc. Ent. Soc. Phil.* i. p. 200 (1862); *id. Trans.*  
*Amer. Ent. Soc.* ii. p. 335 (1869).

*Hab.* United States.

*a.* ♀.

Massachusetts.

*b.* ♂.

89. *Pamphilius amplexus*.

*Lyda amplexa*, *Fabr. Syst. Piez.* p. 46, n. 16 (1804); *Zaddach, Schrift.*  
*Königsb.* iii. p. 178 (1865).

*Lyda plagiata*, *Klug, Berl. Mag.* ii. p. 278, n. 11, pl. vii. fig. 6 (1807);  
*Nort. Trans. Amer. Ent. Soc.* ii. p. 336 (1867).

*Hab.* North America.

*a, b.* ♀.

Georgia.

Probably from Abbot's collection.



90. *Pamphilius insignis*.

*Lyda insignis*, Zaddach, *Schrift. Königsb.* vi. p. 179 (1865).

*Hab.* Georgia.

91. *Pamphilius canadensis*.

*Lyda canadensis*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 336 (1869).

*Hab.* Canada.

92. *Pamphilius ochreipes*.

*Lyda ochreipes*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 30 (1880).

*Hab.* White Mountains.

93. *Pamphilius pullatus*.

*Lyda pullata*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 31 (1880).

*Hab.* Missouri.

94. *Pamphilius perplexus*.

*Lyda perplexa*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 31 (1880).

*Hab.* Massachusetts.

95. *Pamphilius excavatus*.

*Lyda excavata*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 337 (1869).

*Hab.* North America.

*a, b.* ♂ ♀.

New York.

E. Doubleday.

96. *Pamphilius fascipennis*.

*Lyda fascipennis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 31 (1880).

*Hab.* White Mountains.

97. *Pamphilius provancheri*.

*Lyda provancheri*, *Huart, Nat. Canad.* xi. p. 148 (1879).

*Hab.* Canada.

98. *Pamphilius semideus*.

*Lyda semidea*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 31 (1880).

*Hab.* Mount Washington.

99. *Pamphilius nigropectus*.

*Lyda nigropectus*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 32 (1880).

*Hab.* Nevada.

100. *Pamphilius burquei*.*Lyda burquei*, *Provancher, Nat. Canad.* x. p. 204 (1878).*Hab.* Canada.101. *Pamphilius pallimacula*.*Lyda pallimacula*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 338 (1869).*Hab.* United States.102. *Pamphilius pacificus*.*Lyda pacifica*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 338 (1869).*Hab.* California; Vancouver's Island.*a.* ♀. Vancouver's Island. Dr. Lyall.103. *Pamphilius ocreatus*.*Lyda ocreata*, *Say, Bost. Journ.* i. p. 222 (1835); *Nort. Trans. Amer. Ent. Soc.* ii. p. 338 (1869).*Hab.* North America.104. *Pamphilius luteicornis*.*Lyda luteicornis*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 339 (1869).*Hab.* North America\*.

|                   |  |               |
|-------------------|--|---------------|
| <i>a, b.</i> ♂ ♀. | New York.  | E. Doubleday. |
| <i>c.</i> ♀.      | St. Martin's Falls, Albany<br>River, Hudson's Bay. | Dr. Barnston. |

105. *Pamphilius quebecensis*.*Lyda quebecensis*, *Provancher, Nat. Canad.* x. p. 205 (1878).*Hab.* Canada.106. *Pamphilius mathematicus*.

(Plate XIII. fig. 10.)

Exp. al. 11 lin., long. corp. 5 lin.

Black; antennæ rufous, basal joint black; head finely punctured; an oblique spot outside the base of each antenna, a small spot on each side above these, and two oval spots on the vertex, with a carina in the middle of each, yellow; outside these is a narrow yellow line, connected at an acute angle with a large yellow curve, running round the cheeks to the base of the mandibles, which are

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\* The three specimens in the collection vary a little, but appear to belong to the same species.

red; clypeus yellow; the V-spot is yellow, and composed of two right-angled triangles, with a carina between; on each side of the thorax is an oblique tulip-shaped yellow spot. Thorax more finely punctured than the head; abdomen rufous above, black at base and tip; pectus black; scapulæ, pleura, and two spots in front of the anterior coxæ yellow; back of pectus narrowly edged with yellow at the sides, and three yellow spots on each side of the base of the abdomen. Abdomen rufous beneath, the terminal segments banded with black in the middle; legs rufous, femora mostly black. Wings hyaline; stigma black, a shade running from it obliquely towards the hinder angle of the fore wings; second brachial cell with merely the commencement of a cross line; front tibiæ with no side spurs.

*Hab.* Nova Scotia.

*a, b.* ♂. (Types.)

Nova Scotia.

Lieut. Redman.

### 107. *Pamphilius scriptus*.

*Tarpa scripta*, Say, *Long's Second Exped.* ii. p. 312 (1824).

*Lyda scripta*, *Nort. Proc. Bost. Soc.* viii. p. 223 (1863); *id. Trans. Amer. Ent. Soc.* ii. p. 339 (1869).

*Hab.* United States.

*a.* ♀.

Georgia.

Probably from Abbot's collection.

*b, c.* ♂ ♀.

### 108. *Pamphilius multisignatus*.

*Lyda multisignatus*, *Nort. Proc. Ent. Soc. Phil.* iii. p. 15 (1864); *id. Trans. Amer. Ent. Soc.* ii. p. 340 (1869).

*Hab.* Colorado.

### 109. *Pamphilius melliventris*.

*Lyda melliventris*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 32 (1880).

*Hab.* Nevada.

### 110. *Pamphilius rufofasciatus*.

*Lyda rufofasciata*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 340 (1869).

*Hab.* United States.

*a, b.* ♂ ♀.

Nova Scotia.

Lieut. Redman.

### 111. *Pamphilius rufocinctus*.

*Lyda rufocincta*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 32 (1880).

*Hab.* Colorado.

112. *Pamphilius semicinctus*.

*Lyda semicinctus*, *Nort. Proc. Ent. Soc. Phil.* i. p. 144 (1862).

*Lyda semicincta*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 341 (1869).

*Hab.* Virginia.

113. *Pamphilius rileyi*.

(Plate XIII. fig. 8.)

*Lyda rileyi*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 32 (1880).

Exp. al. 7 lin., long. corp.  $3\frac{1}{2}$  lin.

Black; head pale yellow, with two deep sulci on the vertex; neighbourhood of the ocelli black, this colour extending forwards below the antennæ in the middle, though there is a yellow ring between them, and a yellow spot underneath; the black colouring also extends laterally nearly to the eyes both above and below the antennæ, as well as the back of the head, in three converging stripes; there is a black spot behind each eye, and the base of the head is wholly black. Antennæ rather short, 18(?)-jointed, the joints gradually diminishing in length after the third; black, with a slight reddish shade towards the extremity. Thorax with a double yellow triangle in front; scutellum yellow, with an oblique yellow stripe running from each front edge; a large pale yellow spot on each side of the neck, adjoining a large hook-shaped spot on the sides of the thorax; and there is another on each side of the metathorax. Abdomen with a pale triangle at base; segments narrowly edged with pale yellow both above and below; sides and extremity broadly yellow below, but very narrowly above; all the legs yellow except the base of the hind coxæ. Wings hyaline, with reddish-brown stigma and nervures; basal nervures and interior of the stigma yellowish; second brachial cell with only the commencement of a cross-nervure.

*Hab.* Southern States.

a. ♀.

Georgia?

This species stood in the collection under the MS. name of *variegatus*. After figuring it under the impression that it was new, I have succeeded in determining it as *P. rileyi*, Cress.

114. *Pamphilius cavifrons*.

*Lyda cavifrons*, *Cress. Proc. Ent. Soc. Phil.* iv. p. 246 (1865); *Nort. Trans. Amer. Ent. Soc.* ii. p. 341 (1869).

*Hab.* Colorado.

115. *Pamphilius inconspicuus*.

*Lyda inconspicua*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 341 (1869).

*Hab.* Pennsylvania.

## Subfamily XIV. XYELINÆ.

## 109. MACROXYELA.

Allied to *Xyela*, but much larger.

Head transverse, moderately broad. Antennæ 9-jointed, the first joint much broader and twice as long as the second, the third as long as all the remainder together; the following joints much smaller and thinner, collectively about as long as the first two joints together. Wings with three marginal cells and four submarginal cells; of the three nervures which divide the latter, the first is received by the first marginal cell, and the other two by the third; the two recurrent nervures are received by the second and third submarginal cells respectively; lanceolate cell with oblique cross line; hind wings with three inner cells. Abdomen broad, rather flattened; ovipositor stout, distinctly double, projecting to a distance equal to about two thirds of the length of the abdomen; front tibiæ with two small terminal spurs; intermediate tibiæ with at least two middle, and hind tibiæ with at least three middle spurs, in addition to the two terminal spurs\*.

Type *Xyela ferruginea*, Say.

1. *Macroxyela major*.

*Xyela major*, Cress. Trans. Amer. Ent. Soc. viii. p. 34 (1880).

Hab. Texas.

2. *Macroxyela ferruginea*.

(Plate XIV. fig. 1.)

*Xyela ferruginea*, Say, Long's Second Exped. ii. p. 310 (1824); Nort. Trans. Amer. Ent. Soc. ii. p. 348 (1869).

Exp. al. 8-9 lin., long. corp. 3 lin., cum oviductu 5 lin.

Chestnut-colour, lightest on the abdomen; a black spot on the vertex, and on each side of the thorax at the base of the front wings; metathorax narrowly edged behind with black. Wings hyaline, more or less clouded with yellow; nervures ferruginous.

Hab. North America.

a, b. ♀.

3. *Macroxyela infuscata*.

*Xyela infuscata*, Nort. Proc. Bost. Soc. viii. p. 224 (1861); id. Trans. Amer. Ent. Soc. ii. p. 349 (1869).

Hab. United States.

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\* It is difficult to determine the number of spurs with certainty, as they are liable to be broken off.

4. *Macroxyela tricolor*.

*Xyela tricolor*, *Nort. Proc. Ent. Soc. Phil.* i. p. 144 (1862); *id. Trans. Amer. Ent. Soc.* ii. p. 348 (1869).

*Hab.* Kansas.

5. *Macroxyela ænea*.

*Xyela ænea*, *Nort. Trans. Amer. Ent. Soc.* iv. p. 86 (1872).

*Hab.* Texas.

110. *XYELA*.

*Xyela*, *Dalm. Vet.-Acad. Handl.* xl. p. 122 (1819); *id. Anal. Ent.* p. 27 (1823); *Hart. Blattw.* p. 349, pl. vi. figs. 25-33 (1837); *Thoms. Hym. Scand.* i. p. 314 (1871).

*Pinicola*, *Bréb. Nouv. Bull. Soc. Philom.* 1818, p. 116 (*nom. præocc.*).

1 *Xyela julii*.

*Pinicola julii*, *Bréb. Nouv. Bull. Soc. Philom.* 1818, p. 116.

*Xyela pusilla*, *Dalm. Vet.-Acad. Handl.* xl. p. 124, pl. vi. figs. 1-11 (1819); *id. Anal. Ent.* p. 28 (1823).

*Hab.* Europe.

*a-c.* ♂ ♀.

Britain.

J. F. Stephens.

2. *Xyela longula*.

*Xyela longula*, *Dalm. Vet.-Acad. Handl.* xl. p. 124 (1819); *id. Anal. Ent.* p. 28 (1823).

*Hab.* Northern and Central Europe.

3. *Xyela piliserra*.

*Xyela piliserra*, *Thoms. Hym. Scand.* i. p. 317 (1871).

*Hab.* Lapland.

4. *Xyela dahlii*.

*Xyela dahlii*, *Hart. Blattw.* p. 352 (1837).

*Hab.* Austria.

5. *Xyela coniferarum*.

*Xyela coniferarum*, *Hart. Blattw.* p. 352 (1837).

*Hab.* Austria.

6. *Xyela græca*.

*Xyela græca*, *Tischb. Stett. ent. Zeit.* xxxvii. p. 57 (1876).

*Hab.* Greece.

7. *Xyela* (?) *minor*.

*Xyela minor*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 349 (1869).

*Hab.* United States.

## Subfamily XV. CEPHINÆ.

## 111. JANUS.

*Janus*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 107 (1835).

*Phyllocæus*, *Newm. Ent. Mag.* v. p. 485 (1838).

*Ephippionotus*, *Costa, Faun. Nap., Cef.* p. 10 (1860).

1. *Janus* (?) *cephalotes*.

*Ephippionotus cephalotes*, *Costa, Faun. Nap., Cef.* p. 11, pl. lxxix. fig. 2 (1860).

*Hab.* Naples.

The neuration of this species, as figured, agrees with *Xiphydria*.

2. *Janus compressus*.

*Sirex compressus*, *Fabr. Mant. Ins.* ii. p. 131, n. 23 (1787).

*Cephus compressus*, *Löw & Damianitsch, Verh. zool.-bot. Ges. Wien*, xvi. p. 953, pl. xxi. fig. 3 (1866).

*Tenthredo prolongata*, *Fowcr. Ent. Par.* ii. p. 379, n. 47 (1785).

*Hab.* S. Europe ; N. Africa.

3. *Janus luteiventris*.

*Ephippionotus luteiventris*, *Costa, Faun. Nap., Cef.* p. 11, pl. lxxix. fig. 3 (1860).

*Hab.* Naples.

4. *Janus eburneus*.

*Phyllocæus eburneus*, *André, Spec. Hym.* i. p. 528 (1881).

*Hab.* Finland.

5. *Janus cynosbati*.

*Tenthredo cynosbati*, *Linn. Syst. Nat.* i. p. 558, n. 30 (1858) ; *id. Faun. Suec.* p. 394 (1761).

*Lyda* (?) *geoffroyi*, *St.-Farg. Mon. Tenth.* p. 8, n. 19 (1823).

*Cephus femoratus*, *Curt. Brit. Ent.* vii. pl. cccci. (1830).

*Janus connectens*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 108, pl. xxxvi. fig. 1 (1835).

*Phyllocæus faunus*, *Newm. Ent. Mag.* v. p. 485 (1838).

*Hab.* Europe.

|   |          |                 |
|---|----------|-----------------|
| <i>a-c.</i> ♂ ♀. (Types of <i>J. connectens</i> ) | Britain. | J. F. Stephens. |
| <i>d.</i> ♂.                                      | Britain. | W. E. Shuckard. |
| <i>e.</i> ♀.                                      | Britain. |                 |
| <i>f, g.</i> ♀. (As <i>C. femoratus</i> .)        | Britain. | J. F. Stephens. |
| <i>h.</i> ♀. (As <i>C. femoratus</i> .)           | Britain. |                 |
| <i>i, k.</i> ♂.                                   | Germany. | J. F. Ruthe.    |

#### 6. *Janus satyrus*.

*Astatus satyrus*, *Panz. Faun. Germ.* Heft 85, pl. xii. (1805).

*Hab.* Germany.

#### 7. *Janus glabellifer*.

*Cephus glabellifer*, *Thoms. Hym. Scand.* i. p. 319 (1871).

*Hab.* North Germany.

#### 8. *Janus arundinis*.

*Cephus arundinis*, *Gir. Verh. z.-b. Wien*, xiii. p. 1286 (1863).

*Hab.* Central Europe.

|                                      |          |                 |
|--------------------------------------|----------|-----------------|
| <i>a-c.</i> ♂ ♀.                     | Britain. |                 |
| <i>d.</i> ♀. (As <i>C. analis</i> .) | Britain. | J. F. Stephens. |
| <i>e.</i> ♀. (As <i>P. faunus</i> .) | Britain. |                 |

#### 9. *Janus rubi*.

*Phyllocæus* (P) *rubi*, *Perris, Ann. Soc. Ent. France*, (5) iii. p. 83 (1875).

*Hab.* Landes.

#### 10. *Janus algericus*.

*Phyllocæus algericus*, *André, Spec. Hym.* i. p. 542 (1881).

*Hab.* Constantina.

#### 11. *Janus* (?) *orientalis*\*.

*Cephus* (*Phyllocæus*?) *orientalis*, *Tischbein, Stett. ent. Zeit.* xiii. p. 139 (1852).

*Hab.* Asia Minor.

#### 12. *Janus* (?) *mexicanus*†.

*Cephus mexicanus*, *Guér. Icon. R. Anim., Ins.* p. 402 (1844).

*Hab.* Mexico.

\* This species is described as having only 7 joints to the antennæ; but this may be a misprint for 17.

† The North-American species referred to *Phyllocæus* by Norton are scarcely distinct from *Cephus*.



## 112. CEROBACTRUS.

*Cerobactus*, *Costa, Faun. Nap., Cef.* p. 9 (1860).

1. *Cerobactus fumipennis*.

*Cephus fumipennis*, *Eversm. Bull. Mosc.* xx. p. 65 (1847).

*Cerobactus major*, *Costa, Faun. Nap., Cef.* p. 9, pl. lxxix. fig. 1 (1860).

*Hab.* South Europe.

2. *Cerobactus facialis*.

*Cerobactus facialis*, *Costa, Ann. Mus. Nap.* ii. p. 104 (1864).

*Hab.* Turin.

## 113. MACROCEPHUS.

*Macrocephus*, *Schlecht. Ent. Nachr.* iv. p. 153 (1878).

1. *Macrocephus ulmariaë*.

*Macrocephus ulmariaë*, *Schlecht. Ent. Nachr.* iv. p. 153 (1878).

*Hab.* Germany.

## 114. CEPHUS.

*Cephus*, *Latr. Hist. Nat. Crust. Ins.* iii. p. 303 (1802).

*Astatus*, *Panz. (nec Latr.), Faun. Germ.* Heft 83, pl. xii. (1801);

*Klug, Mon. Sir. Germ.* p. 47 (1803).

*Trachelus*, *Jur. Hym.* p. 70 (1807).

*Banchus*, *Panz. Faun. Germ.* Heft 73, pl. xvii. (1797).

A. *Europæo-Asiatic and North-African Species.*1. *Cephus parreyssii*.

*Cephus parreyssii*, *Spin. Ann. Soc. Ent. France*, (2) i. p. 116 (1843).

*Hab.* Spain, Dalmatia.

2. *Cephus spectabilis*.

*Cephus spectabilis*, *Tischb. Stett. ent. Zeit.* xxxvii. p. 58 (1876).

*Hab.* Greece.

3. *Cephus cruentatus*.

*Cephus cruentatus*, *Eversm. Bull. Mosc.* xx. p. 63 (1847).

*Hab.* Astrachan.

4. *Cephus abdominalis*.

*Cephus abdominalis*, *Latr. Nouv. Dict. d'Hist. Nat.* v. p. 498 (1816).

*Hab.* France.

5. *Cephus mocsaryi*.

(Plate XIV. fig. 2.)

Exp. al. 8-12 lin., long. corp. 5-7½ lin.

Head, antennæ, thorax, and legs black, the latter, as well as the abdomen, shading into piceous. Thorax and abdomen finely punctured; third segment of the abdomen with a yellow spot at the extremity on each side. Antennæ about 29-jointed, rather short and thick. Wings smoky hyaline, strongly iridescent, with piceous nervures.

*Hab.* Hungary.*a, b.* ♂ ♀. (Types.)

Hungary.

6. *Cephus nigripennis*.

*Cephus nigripennis*, *Sichel, Ann. Soc. Ent. France*, (3) viii. p. 757 (1860).

*Hab.* South Europe.*a.* ♂.

Spain

Rev. H. Clark.

7. *Cephus idolon*.

*Ichneumon idolon*, *Rossi, Faun. Etr. Mant.* ii. p. 110 (1794).

*Cephus idolon*, *André, Spec. Hym.* i. p. 522 (1881).

*Hab.* South Europe.*a.* ♀.

Spain.

Rev. H. Clark.

8. *Cephus foersteri*.

*Cephus foersteri*, *André, Spec. Hym.* i. p. 526 (1881).

*Cephus flaviventris*, *Först. (nec Guér.) Stett. ent. Zeit.* v. p. 263 (1844).

*Hab.* Europe; Algeria.9. *Cephus variegatus*.

*Cephus variegatus*, *Tischb. Stett. ent. Zeit.* xxxvii. p. 59 (1876).

*Hab.* Ragusa.10. *Cephus bellieri*.

*Cephus bellieri*, *Sichel, Ann. Soc. Ent. France*, (3) viii. p. 757 (1860).

*Hab.* Sicily.11. *Cephus helleri*.

*Cephus helleri*, *Taschenb. Zeitsch. ges. Naturw.* xxxviii. p. 306 (1871).

*Hab.* Lesina.

12. *Cephus albomaculatus*.

*Cephus albomaculatus*, *Tischbein, Stett. ent. Zeit.* xxxvii. p. 59 (1876).

*Hab.* Ragusa.

13. *Cephus niger*.

*Syrex niger*, *Harr. Exp. Ins.* p. 94, pl. xxviii. fig. 2 (1776).

*Sirex troglodyta*, *Fabr. Mant. Ins.* i. p. 258, n. 17 (1787).

*Astatus troglodytus*, *Panz. Faun. Germ.* Heft 83, pl. xii. (1801);

*Klug, Mon. Sir. Germ.* p. 49, pl. vi. figs. 1, 2 a, b (1803).

*Cephus troglodytus*, *Hart. Blattw.* p. 360 (1837).

*Cephus troglodyta*, *Costa, Faun. Nap., Cef.* p. 3 (1860); *Thoms. Hym. Scand.* i. p. 321 (1871).

*Hab.* Europe.

a-g. ♂ ♀.  
h, i. ♂ ♀.  
k-o. ♂ ♀.  
p-r. ♀.

Britain.

Britain.

Germany.

Zurich.

J. F. Stephens.

J. F. Ruthe.

H. Buchecker.

14. *Cephus linearis*.

(Plate XIV. fig. 7.)

*Tenthredo linearis*, *Schrank, Enum. Ins. Austr.* p. 343 (1781).

*Cephus quinquefasciatus*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 104 (1835).

*Cephus faunus*, *Thoms. (nec Newm.) Hym. Scand.* i. p. 319 (1871).

*Phyllocæus faunus*, *André, Spec. Hym.* i. p. 543 (1881).

*Exp.* al. 10-11 lin., long. corp. 5-6 lin.

Black, face and abdomen shading into chestnut; two yellow dots just within the eyes on the vertex, and two more just below the antennæ; between these last are two small oblique stripes on the clypeus. Collar bordered behind with yellow; a yellow triangular spot at the base of the abdomen, and one on each side of the metathorax; a small yellow dash on the hind coxæ. Abdomen compressed; segments 3, 4, 6, 7, 8, and 9 edged with yellow belts behind; segment 2 with only a yellow dot on each side. Legs testaceous; femora blackish. Wings hyaline, with yellowish nervures. Male with the face below the antennæ reddish yellow; a spot in the middle of the clypeus, another on the labrum, and a streak below each antenna, traversing the whole face, black; abdomen cylindrical, and with a yellow dot on each side of segment 5, instead of segment 2; otherwise as in the female.

*Hab.* Europe.

a, b. ♂ ♀. (Types of *C. quinquefasciatus*.)

Bristol (?).

J. F. Stephens.

15. *Cephus pygmæus*.

(Plate XIV. fig. 5, *C. atripes*; fig. 6, *C. pusillus*.)

*Sirex pygmæus*, *Linn. Syst. Nat.* i. p. 929, n. 7 (1767).

*Astatus pygmæus*, *Klug, Mon. Sir. Germ.* p. 50, pl. vi. fig. 3 (1803).

*Cephus pygmæus*, *Hart. Blattw.* p. 361 (1837); *Costa, Faun. Nap., Cef.* p. 4 (1859); *Thoms. Hym. Scand.* i. p. 322 (1871).

*Tenthredo longicornis*, *Fourcr. Ent. Par.* ii. p. 378, n. 44 (1785).

*Cephus leskii*, *St.-Farg. Mon. Tenth.* p. 20, n. 58 (1823).

*Banchus spinipes*, *Panz. Faun. Germ.* Heft 73, pl. xvii. (1797).

*Astutus spinipes*, *Klug, Mon. Sir. Germ.* p. 61, pl. vi. figs. 4 a, b (1803);  
*Hart. Blattw.* p. 361 (1837).

*Cephus atripes et pusillus*, *Steph. Ill. Brit. Ent., Mand.* vii. pp. 105 & 107 (1835).

*Banchus viridator*, *Fabr. Syst. Piez.* p. 127, n. 5 (1804).

(*C. atripes*.) Exp. al. 6-7½ lin., long. corp. 3-4 lin.

Black; base of mandibles, pleuræ, hind coxæ, and sides of abdomen with yellow dots; abdomen with a yellow triangle at the base, segments 3 and 4 broadly, and 5 and 9 narrowly edged behind with lemon-yellow; legs testaceous; femora and hind legs (except the tibiæ beneath, which are testaceous) black. Wings hyaline, with piceous nervures; antennæ slightly thickened towards the tip.

(*C. pusillus*.) Exp. al. 5 lin., long. corp. 3 lin.

Differs in its smaller size; segments 4-6, or only 5 and 6, are belted with yellow behind broadly, and 9 narrowly; the abdominal spots are wanting; the antennæ are testaceous beneath towards the extremity, and the hind tibiæ are testaceous, except at the tips.

Although treating these forms as *C. pygmaeus*, yet I have thought it desirable to figure and briefly characterize them from original Stephensian examples.

*Hab.* Europe.

*a-i.* ♂ ♀.

Britain.

J. F. Stephens.

*k-o.* ♂ ♀.

Britain.

J. F. Stephens.

*p-bb.* ♂ ♀. (Types of *C. atripes*.)

Britain.

J. F. Stephens.

*cc-gg.* ♂ ♀. (Types of *C. pusillus*.)

Britain.

J. F. Stephens.

*hh.* ♀.

Dorsetshire.

J. C. Dale.

*ii-tt.* ♂ ♀.

Germany.

J. F. Ruthe.

*uu, vv.* ♂ ♀.

Munich.

H. Buchecker.

*ww, xx.* ♂ ♀.

Zurich.

H. Buchecker.

*yy-fff.* ♂ ♀.

Europe.

H. Buchecker.

## 16. *Cephus pilosulus*.

*Cephus pilosulus*, *Thoms. Hym. Scand.* i. p. 323 (1871).

*Hab.* Sweden.

## 17. *Cephus infuscatus*.

*Cephus infuscatus*, *Thoms. Hym. Scand.* i. p. 323 (1871).

*Hab.* North Germany.

## 18. *Cephus quadricinctus*.

*Cephus quadricinctus*, *Thoms. Hym. Scand.* i. p. 320 (1871).

*Hab.* Sweden.

## 19. *Cephus pulcher*.

*Cephus pulcher*, *Tischb. Stett. ent. Zeit.* xiii. p. 139 (1852).

*Hab.* Hungary.

20. *Cephus elongatus*.

*Cephus elongatus*, *Vollenh. Bouwst.* ii. p. 280 (1858).

*Hab.* Holland.

21. *Cephus pumilus*.

*Cephus pumilus*, *André, Spec. Hym.* i. p. 529 (1881).

*Hab.* Finland ; Hungary.

22. *Cephus major*.

*Cephus major*, *Eversm. Bull. Mosc.* xx. p. 63 (1847).

*Hab.* Orenburg.

23. *Cephus xanthostoma*.

*Cephus xanthostoma*, *Eversm. Bull. Mosc.* xx. p. 63 (1847).

*Hab.* Ural.

24. *Cephus filiformis*.

*Cephus filiformis*, *Eversm. Bull. Mosc.* xx. p. 64 (1847).

*Hab.* South Russia.

25. *Cephus erberi*.

*Cephus erberi*, *Damianitsch, Verh. zool.-bot. Ges. Wien*, xvi. p. 994, pl. xxi. fig. 2 (1866).

*Hab.* Syra.

26. *Cephus marginatus*.

*Cephus marginatus*, *Kawall, Bull. Mosc.* xxxvii. (1) p. 301 (1864).

*Hab.* Russia.

27. *Cephus brachypterus*.

*Cephus brachypterus*, *Damianitsch, Verh. zool.-bot. Ges. Wien*, xvi. p. 993, pl. xxi. figs. 1, 6 (1866).

*Hab.* Corfu.

28. *Cephus gracilis*.

*Cephus gracilis*, *Costa, Faun. Nap., Cef.* p. 7 (1859).

*Hab.* Naples.

29. *Cephus floralis*.

*Astutus floralis*, *Klug, Mon. Sir. Germ.* p. 55, pl. vi. figs. 5a, b (1803).

*Cephus floralis*, *Hart. Blattw.* p. 362 (1837); *Costa, Faun. Nap., Tentr.* p. 6 (1860).

*Hab.* Europe.

a. ♂.

Britain.

W. E. Shuckard.

b-d. ♂ ♀.

Britain.

J. F. Stephens.

e. ♀.

Britain.

*f, g.* ♂.  
*h-l.* ♂ ♀.  
*m.* ♂.

Germany.  
 Zurich.  
 Sweden.

J. F. Ruthe.  
 H. Buchecker.

### 30. *Cephus phthiscus*.

(Plate XIV. fig. 3, *C. immaculatus*.)

*Cephus phthiscus*, *Fabr. Syst. Piez.* p. 251, n. 5 (1804).

*Astutus pallipes*, *Klug, Mon. Sir. Germ.* p. 55, pl. vi. fig. 6 (1803).

*Cephus pallipes*, *Hart. Blattw.* p. 362 (1837); *Thoms. Hym. Scand.* i. p. 320 (1871).

*Cephus cultrarius*, *Hart. Blattw.* p. 363 (1837).

*Cephus immaculatus*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 107 (1835).

*Cephus nigrinus*, *Thoms. Hym. Scand.* i. p. 322 (1871).

Exp. al.  $5\frac{1}{2}$  lin., long. corp. 4 lin.

Head and thorax black; mandibles yellow; abdomen shading into chestnut-brown; antennæ about 22-jointed, thickened towards the extremity; abdomen with a triangular yellow spot at the base, one or two yellow dots beneath the wings and at the base of the hind coxæ; legs testaceous, the greater part of the femora, and the tips of the hind tibiæ, and the hind tarsi black. Wings hyaline, with testaceous nervures and stigma.

*Hab.* Europe.

*a.* ♀. (As *C. pallipes*.)

*b-d.* ♀.

*e.* ♂. (Type of *C. immaculatus*.)

*f.* ♀.

*g, h.* ♂ ♀.

*i-t.* ♂ ♀.

*u.* ♀.

*v.* ♀.

Britain.

Britain.

Bristol.

Britain.

Britain.

Germany.

Munich.

Zurich.

J. F. Stephens.

J. F. Stephens.

W. E. Shuckard.

J. F. Ruthe.

H. Buchecker.

H. Buchecker.

### 31. *Cephus andreæ*.

*Cephus infuscatus*, *André (nec Thoms.), Spec. Hym.* i. p. 530 (1881).

*Hab.* France.

### 32. *Cephus brachycercus*.

*Cephus brachycercus*, *Thoms. Hym. Scand.* i. p. 322 (1871).

*Hab.* Sweden.

### 33. *Cephus analis*.

*Astutus analis*, *Klug, Mon. Sir. Germ.* p. 54, pl. vii. fig. 1 (1803).

*Cephus analis*, *Hart. Blattw.* p. 362 (1837); *Costa, Faun. Nap., Cef.* p. 7 (1859).

? *Tenthredo hæmorrhoidalis*, *Fabr. Sp. Ins.* i. p. 417, n. 59 (1781).

*Trachelus hæmorrhoidalis*, *Jur. Hym.* pl. vii. gen. 9 (1807).

*Cephus luteipes*, *St.-Farg. Mon. Tenth.* p. 20, n. 56 (1823).

*Hab.* Europe.

*a-d.* ♂ ♀.

Germany.

J. F. Ruthe.

34. *Cephus punctatus*.

*Astatus punctatus*, *Klug, Mon. Sir. Germ.* p. 55, pl. vii. figs. 2 a, b (1803).

*Cephus punctatus*, *Hart. Blattw.* p. 363 (1837).

*Hab.* Europe.

35. *Cephus nigrinus*.

*Cephus nigrinus*, *St.-Farg. Mon. Tenth.* p. 20, n. 5 (1823).

*Hab.* Paris.

36. *Cephus tabidus*.

*Sirex tabidus*, *Fabr. Syst. Ent.* p. 326, n. 8 (1775).

*Astatus tabidus*, *Klug, Mon. Sir. Germ.* p. 56, pl. vii. figs. 3 a, b (1803).

*Cephus tabidus*, *Hart. Blattw.* p. 363 (1837); *Taschenb. Zeitschr. Ges. Naturw.* xxxviii. p. 303 (1871); *Costa, Faun. Nup., Cef.* p. 8 (1859).

*Cephus mandibularis*, *St.-Farg. Mon. Tenth.* p. 19, n. 54 (1823).

*Tenthredo longicollis*, *Fourcr. Ent. Par.* ii. p. 578, n. 45 (1785).

*Hab.* Europe.

|          |           |                 |
|----------|-----------|-----------------|
| a-d. ♀.  | Britain.  | J. F. Stephens. |
| e. ♀.    | Deal.     | F. Smith, Esq.  |
| f. ♀.    | Britain.  |                 |
| g. ♀.    | Germany.  | J. F. Ruthe.    |
| h. ♀.    | Munich.   | H. Buchecker.   |
| i. ♀.    | Spain.    | Rev. H. Clark.  |
| k. ♀.    | Dalmatia. |                 |
| l, m. ♀. | Europe.   |                 |

37. *Cephus macilentus*.

*Sirex macilentus*, *Fabr. Ent. Syst.* ii. p. 131, n. 25 (1793); *Coq. Icones*, p. 48, pl. xi. fig. 3 A, B (1801).

*Hab.* Barbary.

38. *Cephus flavicornis*.

*Cephus flavicornis*, *Luc. Expl. Alg.* iii. p. 34, pl. xix. fig. 9 (1849).

*Hab.* Algeria.

39. *Cephus flaviventris*.

*Cephus flaviventris*, *Guér. Ic. R. Anim., Ins.* p. 402 (1844).

*Hab.* Egypt.

40. *Cephus mittrei*.

*Cephus mittrei*, *Guér. Ic. R. Anim., Ins.* p. 402 (1844).

*Hab.* Algeria.

41. *Cephus nigritarsis*.

*Cephus nigritarsis*, André, *Spec. Hym.* i. p. 545 (1881).

*Hab.* Syria.

42. *Cephus nigricarpus*.

*Cephus nigricarpus*, André, *Spec. Hym.* i. p. 546 (1881).

*Hab.* Syria.

43. *Cephus libanensis*.

*Cephus libanensis*, André, *Spec. Hym.* i. p. 540 (1881).

*Hab.* Syria.

44. *Cephus viator*.

(Plate XIV. fig. 8.)

*Cephus viator*, Smith, *Trans. Ent. Soc. Lond.* 1874, p. 385.

Exp. al. 1 poll., long. corp.  $6\frac{1}{2}$  lin.

Shining black, finely punctured and pubescent; a small yellowish spot in the middle of the vertex on each side just within each eye. Collar yellow. Abdomen with a yellow triangle at the back of the first segment; segments 3, 4, 6, and 7 bordered behind with yellow on the sides, and (except segment 2) also in the middle above. Coxæ and femora black, the former bordered in front with yellowish; anterior coxæ with minute, and hind femora with larger yellow spots; femora black; tibiæ, tarsi, and four anterior knees rufo-testaceous. Wings yellowish hyaline, nervures yellowish brown, costa rufo-testaceous.

As Smith remarks, this species is closely allied to *A. quinquefasciatus*, Steph. (*linearis*, Schrank), of which it may be a variety.

*Hab.* Japan.

a. ♀. (Type.)

Hakodadi.

H. Whitely, Esq.

45. *Cephus agilis*.

(Plate XIV. fig. 4.)

*Cephus agilis*, Smith, *Trans. Ent. Soc. Lond.* 1874, p. 386.

Exp. al. 9 lin., long. corp. 5 lin.

Black, face between the mandibles and the antennæ yellow; a small round black spot in the middle of the clypeus, above the black tips of the mandibles; mandibles otherwise yellow. A triangular spot between each wing, another on the first segment of the abdomen, a spot on the sides of the third segment, and the hind border of the fourth, above and at the sides, yellow. Four anterior legs yellow, and with some yellow markings before the coxæ, which are



black; femora black above and at the base; all the tarsi dusky; hind legs blackish, with only the trochanters and the base of the tibiæ yellow. Wings clear hyaline, with reddish-brown nervures.

*Hab.* Japan.

*a.* ♂. (Type.)

Japan.

G. Lewis, Esq.

#### B. *North-American Species.*

##### 46. *Cephus abbreviatus.*

*Cephus abbreviatus*, *Say, Long's Second Exped.* ii. p. 314 (1824);  
*Nort. Trans. Amer. Ent. Soc.* ii. p. 343 (1869).

*Hab.* Pennsylvania.

##### 47. *Cephus heteropterus.*

*Cephus heteropterus*, *Norton, Proc. Bost. Soc.* viii. p. 224 (1861);  
*id. Trans. Amer. Ent. Soc.* ii. p. 343 (1869).

*Hab.* North America.

##### 48. *Cephus rufiventris.*

*Cephus rufiventris*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 32 (1880).

*Hab.* Nevada.

##### 49. *Cephus integer.*

*Cephus integer*, *Norton, Proc. Bost. Soc.* viii. p. 224 (1861).  
*Phyllocus integer*, *Norton, Trans. Amer. Ent. Soc.* ii. p. 346 (1869).

*Hab.* North America.

##### 50. *Cephus bimaculatus.*

*Phyllocus bimaculatus*, *Norton, Trans. Amer. Ent. Soc.* ii. p. 346 (1869).

*Hab.* Connecticut.

##### 51. *Cephus quadriguttatus.*

*Cephus quadriguttatus*, *Westw. Thes. Ent. Oxon.* p. 111, pl. xx. fig. 1 (1874).

*Hab.* Massachusetts.

##### 52. *Cephus trimaculatus.*

*Cephus trimaculatus*, *Say, Long's Second Exped.* ii. p. 313 (1824).  
*Phyllocus trimaculatus*, *Say, Trans. Amer. Ent. Soc.* ii. p. 345 (1869).

*Hab.* United States.

*a.* ♀.

Nova Scotia.

Lieut. Redman.

53. *Cephus bicinctus*.

*Phyllocæus bicinctus*, *Prov. Nat. Canad.* vii. p. 375, x. p. 207 (1875-78).

*Hab.* Canada.

54. *Cephus abdominalis*.

*Cephus abdominalis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 33 (1880).

*Hab.* Nevada.

55. *Cephus bifasciatus*.

*Cephus bifasciatus*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 33 (1880).

*Hab.* Colorado.

56. *Cephus fasciatus*.

*Cephus fasciatus*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 33 (1880).

*Hab.* Colorado.

57. *Cephus clavatus*.

*Phyllocæus clavata*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 345 (1869).

*Hab.* California.

58. *Cephus cinctus*.

*Cephus cinctus*, *Nort. Trans. Amer. Ent. Soc.* iv. p. 86 (1871).

*Hab.* Colorado.

115. **PACHYCEPHUS.**

*Pachycephus*, *Stein, Stett. ent. Zeit.* xxxvii. p. 60 (1876).

1. *Pachycephus smyrnensis*.

*Pachycephus smyrnensis*, *Stein, Stett. ent. Zeit.* xxxvii. p. 60 (1876).

*Hab.* Asia Minor.

116. **COPIOSOMA.**

*Copiosoma*, *Gradl, Ent. Nachr.* vii. p. 294 (1881).

1. *Copiosoma syringæ*.

*Copiosoma syringæ*, *Gradl, Ent. Nachr.* vii. p. 296 (1881).

*Hab.* Egerland.

## Family II. SIRICIDÆ.

## Subfamily I. ORYSSINÆ.

## 1. ORYSSUS.

*Orussus*, *Latr. Précis*, p. 111 (1796).

*Oryssus*, *Fabr. Ent. Syst. Suppl.* p. 218 (1798); *Klug, Mon. Sir. Germ.* p. 3 (1803); *Hart. Blattw.* p. 364 (1837).

1. *Oryssus abietinus*.

*Sphex abietina*, *Scop. Ent. Carn.* p. 296 (1763).

*Sirex vespertilio*, *Fabr. Ent. Syst.* ii. p. 129, n. 19 (1793); *Klug, Mon. Sir. Germ.* p. 7, pl. i. figs. 1-3 (1803); *Hart. Blattw.* p. 366 (1837).

*Oryssus coronatus*, *Fabr. Ent. Syst. Suppl.* p. 218 (1798); *Curt. Brit. Ent.* x. pl. cccclx. (1833); *Thoms. Hym. Scand.* i. p. 333 (1871).

*Oryssus albopunctatus*, *Gimm. Bull. Mosc.* ix. p. 434 (1836).

*Hab.* Europe.

*a, b.* ♂ ♀.

*c.* ♂.

*d-f.* ♂ ♀.

*g-h.* ♂.

Britain.

Sweden.

Germany.

Vienna.

J. F. Ruthe.

2. *Oryssus hyalinipennis*.

*Oryssus hyalinipennis*, *Costa, Faun. Nap., Oriss.* p. 4, pl. lxxix. fig. 5 (1861).

*Hab.* Calabria.

3. *Oryssus unicolor*.

*Oryssus unicolor*, *Latr. Ent. Méth.* viii. p. 561, n. 2 (1811); *Westw. Thes. Ent. Oxon.* p. 120, pl. xxii. fig. 6 (1874).

*Hab.* France.

*a.* ♂.

Paris.

P. A. Latreille.

4. *Oryssus plumicornis*.

*Oryssus plumicornis*, *Guér. Lef. Voy. Abyss.* vi. p. 345, pl. viii. fig. 1 (1874); *Westw. Thes. Ent. Oxon.* p. 118, pl. xxii. fig. 2 (1874).

*Hab.* Abyssinia; Natal.

5. *Oryssus imperialis*.

*Oryssus imperialis*, *Westw. Thes. Ent. Oxon.* p. 118, pl. xxii. fig. 1 (1874).

*Hab.* Gold Coast.

6. *Oryssus maculipennis*.

(Plate XIV. fig. 11.)

*Oryssus maculipennis*, *Smith, Journ. Linn. Soc.* iv. p. 177 (1860);  
*Westw. Thes. Ent. Oxon.* p. 119, pl. xxii. fig. 5 (1874).

Exp. al. 7 lin., long. corp. 5 lin.

"Black; the head rugose, the front coarsely so, with a row of transverse tubercles running from the vertex along the inner orbits of the eyes, and crossing the front at half their length; the cheeks with a cinereous down, and a line of silvery-white pubescence or down along the outer orbits of the eyes. Thorax closely punctured; the mesothorax with a central longitudinal smooth elevation. Wings fuscous, with a broad transverse hyaline fascia before the base of the marginal cell; the tips of the wings hyaline. The legs ferruginous, with the coxæ and trochanters black; the posterior tibiæ with a double row of serrations outside. Abdomen shining and closely punctured, the base and apex closely so."—*Smith*.\*

*Hab.* Aru.

a. ♀.

Aru.

7. *Oryssus terminalis*.

*Oryssus terminalis*, *Newm. Ent. Mag.* v. p. 486 (1838).  
*Oryssus hæmorrhoidalis*, *Harr. Ins. Mass.* p. 394 (1841).

*Hab.* United States.

a. ♀.

United States.

E. Doubleday.

8. *Oryssus occidentalis*.

*Oryssus occidentalis*, *Cress. Proc. Amer. Ent. Soc.* 1879, p. ix;  
*id. Trans. Amer. Ent. Soc.* viii. p. 48 (1880).

*Hab.* Colorado, Nevada.

9. *Oryssus mexicanus*.

*Oryssus mexicanus*, *Cress. Proc. Amer. Ent. Soc.* 1879, p. x; *id. Trans. Amer. Ent. Soc.* viii. p. 48 (1880).

*Hab.* Mexico.

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\* The specimen figured seems to be intermediate between the type (as described by Smith, and figured by Westwood) and the variety from Mindanao described by Westwood (*l. c.* p. 120). The fore wings are brown, hyaline at the base as well as the tip, and a slightly oblique central fascia of uniform breadth runs from below the costal nervure to the inner margin. Hind wings hyaline, with the apical third brown. This species is remarkably similar to *O. amazonicus*, Westw.

10. *Oryssus sayi*.

*Oryssus sayi*, *Westw. Zool. Journ.* v. p. 440 (1830); *id. Thes. Ent. Oxon.* p. 120, pl. xxii. fig. 7 (1874).  
*Oryssus maurus*, *Harr. Ins. Mass.* p. 394 (1841).

*Hab.* United States.

|       |  |                |
|-------|--|----------------|
| a. ♂. | Nova Scotia.                                       | Lieut. Redman. |
| b. ♀. | St. Martin's Falls, Albany<br>River, Hudson's Bay. | Dr. Barnston.  |
| c. ♀. |  |                |

11. *Oryssus affinis*.

*Oryssus affinis*, *Harr. Ins. Mass.* p. 394 (1841).

*Hab.* Massachusetts.

12. *Oryssus batesianus*.

(Plate XIV. fig. 12.)

*Oryssus batesianus*, *Westw. Thes. Ent. Oxon.* p. 119, pl. xxii. fig. 3 (1874).

*Exp.* al. 1 lin., long. corp. 4 lin.

Blue-black, with a greenish shade on the head and thorax, which are more coarsely punctured than the abdomen; legs black; hind femora rufo-testaceous, with a blue-black streak at the base beneath; base of ovipositor with a red spot; hind tibiae with a row of blunt teeth on the outside. Fore wings dark brown, with the tip hyaline, and an obsolete hyaline band across the middle; hind wings fusco-hyaline, clearer towards the base and along the inner margin.

*Hab.* Amazons.

|                          |      |                   |
|--------------------------|------|-------------------|
| a. ♀. (Type of species.) | Ega. | H. W. Bates, Esq. |
|--------------------------|------|-------------------|

13. *Oryssus fulvistigma*.

*Oryssus fulvistigma*, *Westw. Thes. Ent. Oxon.* p. 119, pl. xxii. fig. 4 (1874).

*Hab.* Ega.

14. *Oryssus amazonicus*\*.

*Oryssus amazonicus*, *Westw. Thes. Ent. Oxon.* p. 121, pl. xxii. fig. 8 (1874).

*Hab.* Amazons.

|       |            |                   |
|-------|------------|-------------------|
| a. ♂. | Amazons.   | H. W. Bates, Esq. |
| b. ♀. | Tunantins. | H. W. Bates, Esq. |
| c. ♀. | Ega.       | H. W. Bates, Esq. |

\* This species (which is remarkable for its close resemblance to *O. maculipennis*, Smith) is ticketed *O. bifasciatus*, Westw., which appears to be the name which Prof. Westwood originally intended for it, as it has been allowed to stand in *Thes. Ent. Oxon.* p. 119 under the description of *O. batesianus*.

15. *Oryssus dentifrons*.

*Oryssus dentifrons*, *Phil. Stett. ent. Zeit.* xxxiv. p. 303, pl. i. figs. 5 a-e (1873).

*Hab.* Valdivia, Chili.

## Subfamily II. XIPHYDRIINÆ.

2. *DERECYRTA*.

*Derecyrtia*, *Smith, Ann. Nat. Hist.* (3) vi. p. 255 (1860); *Westw. Thes. Ent. Oxon.* p. 121 (1874).

I retain this genus for the *Xiphydriinæ* with one radial cell and a short ovipositor, leaving the Chilian species with two radial cells in *Brachyxiphus*.

1. *Derecyrtia pictipennis*.

(Plate XIV. fig. 13.)

*Derecyrtia pictipennis*, *Smith, Ann. Nat. Hist.* (3) vi. p. 255 (1860); *Westw. Thes. Ent. Oxon.* p. 121, pl. xxiii. fig. 2 (1874).

Exp. al. 1 poll. 4 lin. ad 1 poll. 6 lin., long. corp. 7-10 lin.

Head, which is rugose in front, antennæ, legs, and the last four segments of the abdomen (except the middle of the sixth above) shining black; thorax and first five segments of the abdomen shining luteous. Wings brown, radiated with yellowish hyaline at the base, most continuously on the hind wings, and with a broad common hyaline band beyond the middle, ceasing before the hind margin of the hind wings.

*Hab.* Amazons.

a. ♀. (Type.)

Ega.

H. W. Bates, Esq.

b. ♀.

St. Paulo\*.

H. W. Bates, Esq.

2. *Derecyrtia lugubris*.

*Derecyrtia lugubris*, *Westw. Thes. Ent. Oxon.* p. 122, pl. xxiii. fig. 3 (1874).

*Hab.* Brazil.

---

\* The specimen from St. Paulo is smaller and paler than the type, and only the last three segments of the abdomen are black; but there are no other differences.

3. *Derecyrtia flavipes*.

*Brachyxiplus flavipes*, *Phil. Stett. ent. Zeit.* xxxii. p. 287, pl. iii. figs. 2, 2*b* (1871).

*Hab.* Chili.

*a.* ♂.

Chili\*.

E. C. Reed, Esq.

4. *Derecyrtia reedii*.

(Plate XIV. fig. 15.)

*Exp.* al. 6 lin., long. corp. 4 lin.

Shining black; segments 2–4 of the abdomen and the back of the first, legs, and trochanters luteous; coxæ black.

The black antennæ prevent me from regarding this insect as the female of *D. flavipes*, but it is closely allied to that species.

*Hab.* Chili.

*a.* ♀. (Type.)

Chili.

E. C. Reed, Esq.

## 3. BRACHYXIPHUS.

*Brachyxiplus*, *Phil. Stett. ent. Zeit.* xxxii. p. 285 (1871).

1. *Brachyxiplus grandis*.

*Brachyxiplus grandis*, *Phil. Stett. ent. Zeit.* xxxii. p. 287, pl. iii. figs. 1, 1*f* (1871).

♂. *Derecyrtia bicolor*, *Westw. Thes. Ent. Oxon.* p. 121, pl. xxiii. fig. 1 (1874).

*Hab.* Chili.

*a.* ♀.

Chili.

E. C. Reed, Esq.

2. *Brachyxiplus hyalinus*.

(Plate XIV. fig. 9.)

*Exp.* al. 1 poll., long. corp. 7 lin.

Head, thorax, the two first and the terminal segments of the abdomen black; the rest of the abdomen shining luteous. Wings yellowish hyaline, clouded towards the tips, with piceous nervures.

*Hab.* Chili.

*a.* ♂. (Type.)

Chili.

E. C. Reed, Esq.

3. *Brachyxiplus deceptus*.

(Plate XIV. figs. 16 ♀, 10 ♂.)

*Derecyrtia deceptus*, *Smith, Trans. Ent. Soc. Lond.* 1876, p. 474, pl. iv. fig. 6.

♂. *Xiphydria flavopicta*, *Smith, Trans. Ent. Soc. Lond.* 1878, p. 1.

\* This specimen agrees with the figure, except that the four anterior femora are black. Philippi's figure (as observed by Prof. Westwood) seems also to represent a male. Philippi states that the male of *Brachyxiplus* was unknown to him; but this remark probably applied only to *B. grandis*.

Exp. al. 7-8 lin., long. corp. 4-5 lin.

Luteous; head and thorax darker above, especially in the male; orbits, and an extension on the vertex to the occiput, face, and a V-shaped spot between the antennæ yellow; the first or the two first joints of the antennæ rufous. Thorax with three pairs of spots on the back; cenchri and part of the scutellum yellow. Collar and a large spot beneath the wings yellow. Pectus blackish. Femora and tibiæ yellowish in the male, in which the last three segments of the abdomen shade into blackish. Wings yellowish hyaline, with piceous nervures.

Described from one male and one female, which, though placed in different genera by the late Mr. F. Smith, agree so closely in their markings that I have no doubt of their identity. On account of the short ovipositor, I place them provisionally in *Brachyxiplus* rather than in *Xiphydria*.

*Hab.* New Zealand.

|  |             |                       |
|--|-------------|-----------------------|
| a. ♀. (Type.)                          | Canterbury. | C. M. Wakefield, Esq. |
| b. ♂. (Type of <i>X. flavopicta</i> .) | Otago.      | Prof. Hutton.         |

#### 4. XIPHYDRIA.

*Xiphydria*, *Latr. Hist. Nat. Crust. Ins.* iii. p. 304 (1802); *Hart. Blattw.* p. 367 (1837).

*Hybonotus*, *Klug, Mon. Sir. Germ.* p. 11 (1803).

*Xiphiura*, *Fall. N. Hym. Disp.* (1813).

*Xiphidion*, *Prov. Nat. Canad.* x. p. 233 (1878).

##### 1. *Xiphydria camelus*.

*Ichneumon camelus*, *Linn. Syst. Nat.* i. p. 560, n. 4 (1758).

*Sirex camelus*, *Linn. Faun. Suec.* p. 397 (1761).

*Hybonotus camelus*, *Klug, Mon. Sir. Germ.* p. 14, pl. i. figs. 4, 5 (1803).

*Xiphydria camelus*, *Hart. Blattw.* p. 369 (1837); *Thoms. Hym. Scand.* i. p. 330 (1871).

*Hab.* Europe.

|            |            |                      |
|------------|------------|----------------------|
| a-d. ♂ ♀.  | Britain.   | J. F. Stephens.      |
| e, f. ♂ ♀. | Newcastle. | W. C. Hewitson, Esq. |
| g. ♀.      | Britain.   | T. C. Heysham, Esq.  |
| h. ♀.      | Britain.   |                      |
| i. ♂.      | France.    |                      |
| k, l. ♂ ♀. | Germany.   | J. F. Ruthe.         |

##### 2. *Xiphydria dromedarius*.

*Sirex dromedarius*, *Fabr. Mant. Ins.* ii. p. 258, n. 14 (1787).

*Xyphidria camelus* ♀, *Fabr. Syst. Piez.* p. 52 (1804).

*Hybonotus dromedarius*, *Klug, Mon. Sir. Germ.* p. 15, pl. i. figs. 6, 7 (1803).

*Xyphidria fasciata*, *St.-Farg. Mon. Tenthr.* p. 3, n. 4 (1823).

*Xiphydria dromedarius*, *Hart. Blattw.* p. 370 (1837); *Thoms. Hym. Scand.* i. p. 331 (1871).

*Hab.* Europe.



|                  |          |                 |
|------------------|----------|-----------------|
| <i>a-i.</i> ♂ ♀. | Britain. | J. F. Stephens. |
| <i>k-n.</i> ♂ ♀. | Britain. |                 |
| <i>o-r.</i> ♂ ♀. | Germany. | J. F. Ruthe.    |
| <i>s, t.</i> ♀.  | Europe.  |                 |

### 3. *Xiphydria annulata*.

*Urocerus annulatus*, *Jur. Hym.* pl. vii. gen. 10 (1807).

*Xiphydria annulata*, *Hart. Blattw.* p. 369 (1837); *Costa, Faun. Nap.*, *Oriss.* p. 3 (1861).

*Hab.* Europe.

|                 |          |              |
|-----------------|----------|--------------|
| <i>a, b.</i> ♀. | France.  |              |
| <i>c.</i> ♀.    | Germany. | J. F. Ruthe. |
| <i>d, e.</i> ♀. | Europe.  |              |

### 4. *Xiphydria albicornis*.

*Xiphydria albicornis*, *Harr. Ins. Mass.* p. 392 (1841); *Nort. Trans. Amer. Ent. Soc.* ii. p. 352 (1869).

*Hab.* United States.

|              |         |                        |
|--------------|---------|------------------------|
| <i>a.</i> ♀. | Canada. | W. M. S. D'Urban, Esq. |
|--------------|---------|------------------------|

### 5. *Xiphydria provancheri*.

*Xiphydria provancheri*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 49 (1880).

*Xiphidion canadense*, *Prov. Nat. Canad.* x. p. 233 (1878).

*Hab.* North America.

### 6. *Xiphydria walshi*.

(Plate XIV. fig. 14.)

*Xiphydria walshi*, *Westw. Thes. Ent. Oxon.* p. 113 (1874).

Exp. al.  $5\frac{1}{2}$  lin., long. corp. 3 lin.

Black; abdomen piceous, much paler beneath, where the sides of the segments are bordered with white; antennæ 14-jointed, brown, reddish towards the base beneath; legs rufous; trochanters pale, the last two joints of the tarsi black; face, including lower orbits, whitish; the hinder orbital line runs round to the occiput, but does not meet above; two very slender streaks within the eyes above. Neck pale, with a black streak on each side. Wings clear hyaline, with brown nervures; stigma brownish yellow; the nervure dividing the third and fourth submarginal cell is incomplete. The first segment of the abdomen is bisected by a pale streak, meeting one which joins it behind.

*Hab.* United States.

|                      |           |               |
|----------------------|-----------|---------------|
| <i>a.</i> ♂. (Type.) | New York. | E. Doubleday. |
|----------------------|-----------|---------------|

**7. Xiphydria canadensis.**

*Xiphydria canadensis*, *Prov. Nat. Canad.* vii. p. 373 (1871).

*Hab.* Canada.

**8. Xiphydria maculata.**

*Xiphydria maculata*, *Say, Bost. Journ.* i. p. 231 (1835); *Norton, Trans. Amer. Ent. Soc.* ii. p. 353 (1869).

*Hab.* Canada.

**9. Xiphydria tibialis.**

*Xiphydria tibialis*, *Say, Long's Second Exped.* ii. p. 312 (1824);  
*Norton, Trans. Amer. Ent. Soc.* ii. p. 353 (1869).

*Xiphydria mellipes*, *Harr. Ins. Mass.* p. 393 (1841).

*Hab.* Pennsylvania.

**10. Xiphydria basalis.**

*Xiphydria basalis*, *Say, Bost. Journ.* i. p. 222 (1835); *Norton, Trans. Amer. Ent. Soc.* ii. p. 354 (1869).

*Hab.* Indiana.

**11. Xiphydria abdominalis.**

*Xiphydria abdominalis*, *Say, Long's Second Exped.* ii. p. 331 (1824);  
*Norton, Trans. Amer. Ent. Soc.* ii. p. 354 (1869).

*Hab.* Pennsylvania.

**12. Xiphydria rufiventris.**

*Xiphydria rufiventris*, *Cresson, Trans. Amer. Ent. Soc.* viii. p. 34 (1880).

*Hab.* New York.

**13. Xiphydria attenuata.**

*Xiphydria attenuatus*, *Norton, Proc. Ent. Soc. Phil.* i. p. 144 (1862);  
*id. Trans. Amer. Ent. Soc.* ii. p. 354 (1869).

*Hab.* Pennsylvania.

**14. Xiphydria orientalis.**

*Xiphydria orientalis*, *Westw. Thes. Ent. Oxon.* p. 112, pl. xxii. fig. 10 (1874).

*Hab.* Neilgherries; Ceylon.

15. *Xiphydria læviceps*.

*Xiphydria læviceps*, *Smith, Journ. Linn. Soc., Zool.* v. p. 137 (1861);  
*Westw. Thes. Ent. Oxon.* p. 112, note (1874).

*Hab.* Amboina.

16. *Xiphydria rufipes*.

*Xiphydria rufipes*, *Smith, Journ. Linn. Soc., Zool.* iv. p. 177 (1860);  
*Westw. Thes. Ent. Oxon.* p. 112, note (1874).

*Hab.* Aru.

## Subfamily III. SIRICINÆ.

## 5. SIREX.

*Sirex*, *Linn. Faun. Suec.* p. 396 (1761); *Klug, Mon. Sir. Germ.* p. 19 (1803); *Hart. Blattw.* p. 370 (1837).  
*Urocerus*, *Geoff. Ins. Par.* ii. p. 264 (1762).

A. *Europeco-Asiatic Species.*1. *Sirex gigas*.

*Ichneumon gigas*, *Linn. Syst. Nat.* i. p. 560, n. 1 (1758).  
*Sirex gigas*, *Linn. Faun. Suec.* p. 396 (1761); *Klug, Mon. Sir. Germ.* p. 31, pl. ii. figs. 1-5 (1803); *Hart. Blattw.* p. 382 (1837).  
*Sirex marisca*, *Linn. Faun. Suec.* p. 397 (1761).  
*Sirex mariscus*, *Linn. Syst. Nat.* i. pt. 2, p. 929, n. 6 (1767).  
*Sirex psyllius*, *Fabr. Ent. Syst.* ii. p. 124, n. 2 (1793).  
*Sirex hungaricus*, *Christ, Ins.* p. 414, pl. xlvii. fig. 1 (1791).

*Hab.* Europe; North Asia; North Africa.

|                    |                          |                 |
|--------------------|--------------------------|-----------------|
| <i>a-d.</i> ♂ ♀.   | Britain.                 | J. F. Stephens. |
| <i>e.</i> ♀.       | Found in British Museum. | E. Miers, Esq.  |
| <i>f-m.</i> ♂ ♀.   | Britain.                 |                 |
| <i>n.</i> ♀.       | Alten.                   |                 |
| <i>o-s.</i> ♂ ♀.   | Munich.                  | H. Buchecker.   |
| <i>t, u.</i> ♂ ♀.  | Zurich.                  | H. Buchecker.   |
| <i>v, w.</i> ♀.    | Swiss Alps.              | H. Buchecker.   |
| <i>x-aa.</i> ♂ ♀.  | Europe?                  |                 |
| <i>bb-ec.</i> ♂ ♀. | Algeria.                 |                 |
| <i>ff-hh.</i> ♀.   | Salair, Siberia.         | Dr. Finsch.     |
| <i>ii.</i> ♀.      | Samarowa, Siberia.       | Dr. Finsch.     |

2. *Sirex lefebvrei*.

*Sirex lefebvrei*, *Guér. Mag. Zool.* 1833, pl. lxxviii.

*Hab.* Sicily.

3. *Sirex augur*.

*Sirex augur*, *Klug, Mon. Sir. Germ.* p. 34, pl. iii. figs. 1, 2, pl. iv. fig. 3 (1803); *Hart. Blattw.* p. 383 (1837).

*Hab.* Central Europe.

*a.* ♂. Bohemia. Prof. N. M. Kheil.

4. *Sirex fantoma*.

*Sirex fantoma*, *Fabr. Spec. Ins.* i. p. 419, n. 7 (1781); *Klug, Mon. Sir. Germ.* p. 35, pl. iii. fig. 3 (1803); *Hart. Blattw.* p. 383 (1837); *Sirex tardigradus*, *Cederh. Faun. Ingr.* p. 154, pl. iii. fig. 6 (1798).

*Hab.* South Germany.

*a-c.* ♂ ♀. Munich. H. Buchecker.

5. *Sirex juvenicus*.

*Ichneumon juvenicus*, *Linn. Syst. Nat.* i. p. 560, n. 3 (1758).  
*Sirex juvenicus*, *Linn. Faun. Suec.* p. 396 (1761); *Thoms. Hym. Scand.* i. p. 327 (1871).  
*Sirex juvenicus*, var. 2, *Klug, Mon. Sir. Germ.* p. 38, pl. iv. fig. 3 (1803); *Hart. Blattw.* p. 327 (1837).

*Hab.* Europe.

*a.* ♀. Britain. J. F. Stephens.  
*b-d.* ♂ ♀. Denmark\*.  
*e.* ♂. Samarowa, Siberia. Dr. Finsch.

6. *Sirex noctilio*.

*Sirex noctilio*, *Fabr. Ent. Syst.* ii. p. 130, n. 22 (1793).  
*Sirex juvenicus* (excl. var. 2), *Klug, Mon. Sir. Germ.* p. 36, pl. iii. figs. 4, 5, pl. iv. figs. 1, 2 (1803); *Hart. Blattw.* p. 384 (1837).  
*Sirex melanocerus*, *Thoms. Hym. Scand.* i. p. 328 (1871).

*Hab.* Europe; Siberia.

*a-l.* ♂ ♀. Britain. J. F. Stephens.  
*m.* ♀. British Museum.  
*n-p.* ♂ ♀. Britain.  
*q.* ♀. Munich. H. Buchecker.  
*r-u.* ♂ ♀. Germany. J. F. Ruthe.  
*v, w.* ♂ ♀. Bohemia. Prof. N. M. Kheil.  
*x, y.* ♂ ♀. Europe.  
*z.* ♀. Angara.

\* These specimens are ticketed "*Sirex neglectus*," but I do not know if the species has been described under that name. It appears to be a rather scarce insect.

7. *Sirex feisthamelii*.

*Urocerus feisthamelii*, *Brullé, Expéd. Scient. de Morée*, iii. (1) pt. 2, p. 387, pl. lli. fig. 8 (1832).

*Hab.* Greece.

8. *Sirex stephensii*.

(Plate XVI. fig. 6.)

*Sirex magus*, p., *Steph. (nec auct. al.) Ill. Brit. Ent., Mand.* vii. p. 116 (1835).

Exp. al. 1 poll. 11 lin., long. corp. 1 poll. 6 lin.

Head and thorax blue-black, strongly punctured, a large pale yellow spot behind the eyes; first three joints of antennæ blue-black, the fourth blackish on the inside, the remainder pale yellow. Abdomen black, smooth, the incisions chestnut, and marked with a row of pale triangular spots on the sides and on the middle beneath; segment 8 nearly twice as long as the preceding, and marked with a long kidney-shaped spot on the sides. Legs black, with the basal half of all the tibiæ and of the first joint of the tarsi pale yellowish. Wings smoky yellowish hyaline, with chestnut nervures; costa and stigma blue-black.

*Hab.* England (probably introduced)\*.

a. ♀. (Type.)

Near London.

J. F. Stephens.

9. *Sirex* (?) *dubia*.

*Sirex nigricornis*, *Acerbi (nec Fabr.), Travels through Sweden*, ii. p. 253, pl. i. fig. 1 (1802).

*Hab.* Lapland.

10. *Sirex spectrum*.

*Ichneumon spectrum*, *Linn. Syst. Nat.* i. p. 560, n. 2 (1758).

*Sirex spectrum*, *Linn. Faun. Suec.* p. 396 (1761); *Klug, Mon. Sir. Germ.* p. 39, pl. iv. figs. 5, 6, pl. v. fig. 1 (1803).

♂. *Sirex emarginatus*, *Fabr. Ent. Syst.* ii. p. 128, n. 15 (1793).

*Hab.* Europe; North Asia; North Africa.

a, b. ♀.

Munich.

H. Buchecker.

c, d. ♂ ♀.

Transbaikal.

e-g. ♂.

Algeria.

11. *Sirex cedrorum*.

(Plate XV. figs. 2 ♂, 3 ♀.)

*Sirex cedrorum*, *Smith, Ann. Nat. Hist.* (3) vi. p. 256 (1860).

Exp. al. 1 poll. 3 lin. ad 1 poll. 10 lin., long. corp. 1 poll. ad 1 poll. 3 lin.

\* This species so closely resembles a *Tremex* in shape, and is so similar to the descriptions of *T. magus*, that it is not surprising that Stephens should have confounded it with that species, apparently eking out his own description by those of other writers. In *T. magus*, however, the stigma and the last joint of the tarsi are yellow.

*Male.* Head and thorax black; back of head yellow, divided in the middle by a dark line; face and back of vertex reddish; antennæ reddish brown, darkest at the base, and the base of the segments annulated with paler, at least beneath. Front legs reddish brown, hind legs black, the base of the tibiæ and the first joint of the tarsi yellow; cenchri yellow. Abdomen reddish luteous above, with the tip black; the sides and under surface much paler, with the segments bordered with reddish brown, which colour spreads over more or less of the middle. Wings dusky hyaline, darker towards the tips, with yellow costa and ferruginous-brown nervures.

*Female* like the male, but the antennæ and legs are yellow, except the base of the femora, the apical half of the intermediate, and three quarters of the length of the hind tibiæ, which are black. Mesothorax reddish above, probably from abrasion. Abdomen black, the hinder half of the first segment, the second (sometimes), a narrow border on the sides of the sixth behind, the front half of the eighth and the ninth yellow; ovipositor black, sheaths yellow. Wings yellowish hyaline, with reddish nervures; apical half of the abdominal fold of the hind wings clouded.

*Hab.* Lebanon.

*a-d.* ♂ ♀. (Types.)

Lebanon.

## 12. *Sirex sah.*

*Sirex sah*, *Mocs. Term. füzetek*, v. p. 36 (1881).

*Hab.* Persia.

## 13. *Sirex vates.*

*Sirex vates*, *Mocs. Term. füzetek*, v. p. 36 (1881).

*Hab.* North China.

## 14. *Sirex japonicus.*

(Plate XV. fig. 4.)

*Sirex japonicus*, *Smith, Trans. Ent. Soc. Lond.* 1874, p. 386.

Exp. al. 1 poll. 6 lin. ad 1 poll. 11 lin., long. corp. 1 poll. 1 lin. ad 1 poll. 7. lin.

Black; head yellow, except around the ocelli; prothorax, the second segment of the abdomen, and the hinder edge of the first, eighth segment except behind, sometimes the ninth, the sheaths of the ovipositor, and all the legs, except more or less of the middle of the femora, black. Wings deep yellowish hyaline, the tips clouded; nervures ferruginous.

Allied to the American *S. bizonatus*, but differs in its yellow prothorax, much deeper-coloured wings, &c.

*Hab.* Japan.

*a, b.* ♀. (Types.)

Hiogo.

G. Lewis, Esq.

B. *North-American Species.*15. *Sirex edwardsii*.

*Sirex edwardsii*, *Brullé, Hym. iv. p. 645, pl. xlv. fig. 1 (1846);*

*Norton, Trans. Amer. Ent. Soc. ii. p. 356 (1869).*

*Sirex abaddon, Westw. Thes. Ent. Oxon. p. 115, pl. xxi. fig. 7 (1874).*

*Hab.* North America.

*a.* ♀. United States.  
*b, c.* ♀. Georgia\*.

Probably from Abbot's collection.

16. *Sirex varipes*.

(Plate XV. fig. 9.)

*Sirex varipes, Walk. Lord's Naturalist in Vancouver's Island, ii. p. 342 (1866).*

Exp. al. 1 poll. 6 lin., long. corp. 1 poll.

Head and thorax greenish blue, pubescent; abdomen violet-blue; coxæ and trochanters steel-blue; legs and base of ovipositor luteous; femora and tibiæ with a blue line above. Wings hyaline, clouded towards the extremity; second radial cell with a transverse nervure extending half across.

Closely allied to *S. juvenus*.

*Hab.* British Columbia.

*a.* ♀. (Type.) British Columbia. J. K. Lord, Esq.

17. *Sirex areolatus*.

*Urocerus areolatus, Cress. Trans. Amer. Ent. Soc. i. p. 375 (1867);*

*Norton, op. cit. ii. p. 358 (1869).*

*Hab.* California; New Mexico.

*a.* ♀. California.

18. *Sirex apicalis*.

(Plate XV. fig. 11.)

Exp. al. 1 poll., long. corp.  $7\frac{1}{2}$  lin.

Head and thorax steel-blue, with a greenish tinge, coarsely punctured or granulated. The first two segments and the apex of the

---

\* I am not sure that the two specimens from Georgia really belong to this species; but I can find no satisfactory characters to separate them, except that the fore wings appear to be rather more pointed, and that the incomplete cross line of the second brachial cell is longer. They may, however, be females of *S. abbotii*.

abdomen glossy violet; segments 3-7 luteous. Legs blue-black, hind tarsi pitchy beneath. Wings yellowish hyaline, with piceous nervures; second brachial cell with incomplete inner cross line.

This insect is closely allied to *S. noctilio*, but differs in the colour of the legs. It is probably the male of *S. areolatus*, Cress.

*Hab.* Vancouver's Island.

a. ♂. (Type.)                      Vancouver's Island.                      Lieut.-Col. Hawkins.

### 19. *Sirex zonatus*.

*Urocerus zonatus*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 357 (1869).

*Sirex fulvocinctus*, *Westw. Thes. Ent. Oxon.* p. 114, pl. xxi. fig. 1 (1874).

*Hab.* United States.

### 20. *Sirex latifasciatus*.

*Sirex latifasciatus*, *Westw. Thes. Ent. Oxon.* p. 114, pl. xxi. fig. 2 (1874).

*Hab.* North America.

### 21. *Sirex abbotii*.

(Plate XV. fig. 8.)

Exp. al. 1 poll. 6 lin., long. corp. 11 lin.

Head and antennæ blue-black, extremities of the first two joints of antennæ rufous below; thorax greenish; first two segments of abdomen, and half the third, and last two segments blue-black; head and prothorax very hairy, very coarsely punctured; abdomen more finely. Legs rufous, hind tibiæ and first three joints of the tarsi black. Wings yellowish hyaline; venation most anomalous:—on one side there is a projection in the nervure bounding the first marginal cell; the nervule crossing the second radial cell is incomplete; and on the hind wings the nervure bounding the first middle cell on the outside is Y-shaped; on the other side, the nervure between the first marginal and first submarginal cell is double, and a projecting nervure is thrown out from above into the second and third submarginal cells; the second brachial cell has an incomplete cross nervule. Hind tibiæ and first joint of tarsi much inflated.

*Hab.* Georgia.

a. ♂. (Type.)                      Georgia.                      Probably from Abbot's collection.

### 22. *Sirex cyaneus*.

*Sirex cyaneus*, *Fabr. Spec. Ins.* i. p. 419, n. 8 (1781).

*Urocerus nitidus*, *Harr. Ins. Mass.* p. 391 (1841).

*Sirex nigricornis*, *Newm. Ent. Mag.* i. p. 414 (1833).

*Sirex duplex*, *Shuck. Mag. Nat. Hist.* (2) i. p. 631 (1837).



*Hab.* North America.

|                  |  |                 |
|------------------|--|-----------------|
| <i>a-g.</i> ♂.   | Britain (introduced).                              | J. F. Stephens. |
| <i>h-l.</i> ♂ ♀. | Britain (introduced).                              | W. E. Shuckard. |
| <i>m, n.</i> ♂.  | Britain (bred from larch).                         | Sir J. Lubbock. |
| <i>o.</i> ♀.     | Nova Scotia  | Lieut. Redman.  |
| <i>p.</i> ♀.     | Newfoundland.                                      | J. Milne, Esq.  |
| <i>q.</i> ♀.     | St. Martin's Falls, Albany River,<br>Hudson's Bay. | Dr. Barnston.   |
| <i>r, s.</i> ♀.  | North America?                                     |                 |

23. *Sirex cæruleus*.

*Urocerus cæruleus*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 34 (1880).

*Hab.* Western North America.

|              |                     |                      |
|--------------|---------------------|----------------------|
| <i>a.</i> ♀. | Vancouver's Island. | Lieut.-Col. Hawkins. |
|--------------|---------------------|----------------------|

24. *Sirex nigricornis*.

*Sirex nigricornis*, *Fabr. Spec. Ins.* i. p. 418, n. 3 (1781).

*Sirex morio*, *Westw. Thes. Ent. Oxon.* p. 115, pl. xxi. fig. 6 (1874).

*Hab.* North America.

|                |                |
|----------------|----------------|
| <i>a-d.</i> ♀. | North America. |
|----------------|----------------|

25. *Sirex behrensii*.

*Urocerus behrensii*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 35 (1880).

*Hab.* California.26. *Sirex fulvus*.

*Urocerus fulvus*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 35 (1880).

*Hab.* Western United States; Mexico.

|              |         |
|--------------|---------|
| <i>a.</i> ♂. | Mexico. |
|--------------|---------|

27. *Sirex albicornis*.

*Sirex albicornis*, *Fabr. Spec. Ins.* i. p. 419, n. 9 (1781).

*Urocerus albicornis*, *Harr. Ins. Mass.* p. 391 (1841).

*Urocerus albicornis* & var. *californicus*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 360 (1869).

*Hab.* North America.

|                |                   |                        |
|----------------|-------------------|------------------------|
| <i>a-c.</i> ♀. | Newfoundland      | J. Milne, Esq.         |
| <i>d-f.</i> ♀. | Nova Scotia.      | Lieut. Redman.         |
| <i>g.</i> ♀.   | Canada.           | W. M. S. D'Urban, Esq. |
| <i>h-k.</i> ♀. | British Columbia. | J. K. Lord, Esq.       |
| <i>l-n.</i> ♀. | North America?    |                        |

28. *Sirex flavipennis*.

(Plate XV. fig. 10.)

Exp. al. 2-2 $\frac{1}{4}$  poll., long. corp. 1 poll. 6 lin. ad 1 poll. 8 lin.

Black; head and thorax granulated, and thickly clothed with greyish pubescence; antennæ (except the basal joint), the collar, enchri, and the basal half of the femora and tarsi yellow. Wings deep yellowish hyaline. One specimen has a yellow spot on each side, in front of the eighth segment of the abdomen.

Allied to *S. albicornis*, but much larger, and with only the basal oint of the antennæ black.

-c. ♀. (Types.)

Vancouver's Island.

Lieut.-Col. Hawkins.

29. *Sirex hirsutus*.

(Plate XV. fig. 6.)

Exp. al. 2 poll., long. corp. 1 poll. 2 lin.

Head and thorax bluish black, very hairy; first five or six joints of the antennæ rufous; first two segments of the abdomen and cornus lighter blue, the remainder of the abdomen dull reddish, irregularly mottled with black; front legs rufous, middle legs rufous on one side and blackish on the other; hind legs blackish; femora reddish brown, and the terminal joints of the tarsi more or less red; hind tibiæ and first joint of tarsi much swollen, flattened, and deeply channelled. Wings yellowish hyaline, more strongly washed with yellow on portions of the costa and inner margin.

*Hab.* Georgia (?) \*.

a. ♂. (Type.)

Georgia (?).

30. *Sirex abdominalis*.

*Urocerus abdominalis*, *Harr. Ins. Mass.* p. 392 (1841); *Nort. Trans. Amer. Ent. Soc.* ii. p. 361 (1869).

*Hab.* United States.31. *Sirex flavicornis*.

(Plate XII. fig. 18.)

*Sirex flavicornis*, *Fabr. Spec. Ins.* i. p. 418, n. 4 (1781).

Exp. al. 2 poll. 4 lin., long. corp. 1 poll. 7 lin.

Head and thorax black, villous; antennæ, cheeks, knees, tibiæ, and tarsi yellow; hind tarsi, below the middle of the first joint, red-

\* This specimen was placed with *S. abbotii* as *S. juvenus*, and, although not labelled, is very probably also from Georgia.

dish brown beneath; claws blackish; abdomen and femora black; cenchri, hinder portion of the first segment of the abdomen, the whole of the second, a row of spots at the back of the sixth, the seventh and the greater part of the front of the eighth (except a small triangular spot on each side in front) yellow above; cornus yellow; ovipositor black, the neighbourhood of its base yellowish beneath. Wings yellowish hyaline, with yellowish-brown nervures.

*Hab.* Labrador.

*a.* ♀. (Type.)                      Labrador.                      Banksian Collection.

### 32. *Sirex bizonatus*.

*Urocerus flavicornis*, *Nort. (nec Fabr.) Trans. Amer. Ent. Soc.* ii. p. 362 (1869).

*Sirex bizonatus*, *Steph. Ill. Brit. Ent., Mand.* vii. p. 114, pl. xxxvi. fig. 2 (1835).

*Exp.* al. 1 poll. 5–8 lin., long. corp. 1 poll. ad 1 poll. 2 lin.

Perhaps a variety of the last, but smaller and more slender, and appears to be constant in coloration. Differs in the paler hind legs, which are brown only at the tips of the tibiae above and at the claws, and in the colour of the abdomen, which is black above, with the second segment, a narrow border to the first, the seventh, and more or less of the front half of the eighth, luteous above.

Stephens has well figured the female of this species or variety; and as it is a well-known insect, I have thought it sufficient to give a comparative description here.

*Hab.* North America.

|                          |  |                    |
|--------------------------|--|--------------------|
| <i>a, b.</i> ♀. (Types.) | Britain (introduced).                              | J. F. Stephens.    |
| <i>c, d.</i> ♂.          | Nova Scotia.                                       | Lieut. Redman.     |
| <i>e.</i> ♂.             | Nova Scotia.                                       |                    |
| <i>f-k.</i> ♂ ♀.         | St. Martin's Falls, Albany<br>River, Hudson's Bay. | Dr. Barnston.      |
| <i>l.</i> ♀.             | Cape Krusenstern, Arctic<br>Regions.               | Sir J. Richardson. |
| <i>m.</i> ♀.             | Mackenzie River.                                   | Dr. Rae.           |
| <i>n.</i> ♀.             | Fort Churchill, Hudson's<br>Bay.                   | Capt. Herd.        |
| <i>o.</i> ♀.             | British Columbia.                                  | J. K. Lord, Esq.   |
| <i>p, q.</i> ♀.          | Newfoundland.                                      | J. Milne, Esq.     |
| <i>r.</i> ♀.             | Newfoundland.                                      |                    |

### 33. *Sirex dimidiatus*.

*Sirex dimidiatus*, *Westw. Thes. Ent. Oxon.* p. 115, pl. xxi. fig. 5 (1874).

*Hab.* North America.

*a.* ♀.                      North America.

34. *Sirex tricolor*.

*Urocerus tricolor*, *Prov. Nat. Can.* i. p. 17, ii. p. 77, fig. 10 (1869-70).  
*Hab.* Canada.

35. *Sirex cressonii*.

*Urocerus cressonii*, *Nort. Proc. Ent. Soc. Phil.* iii. p. 16 (1864); *id.*  
*Trans. Amer. Ent. Soc.* ii. p. 361 (1869).  
*Hab.* United States.

36. *Sirex tarsalis*.

*Urocerus tarsalis*, *Cress. Trans. Amer. Ent. Soc.* viii. p. 52 (1880).  
*Hab.* Washington Territory.

37. *Sirex gracilis*.

*Sirex gracilis*, *Westw. Thes. Ent. Oxon.* p. 114, pl. xxi. fig. 4 (1874).  
*Hab.* North America.

38. *Sirex caudatus*.

*Urocerus caudatus*, *Cress. Proc. Ent. Soc. Phil.* iv. p. 247 (1865).  
*Hab.* North America\*.

|         |                                   |                            |
|---------|-----------------------------------|----------------------------|
| a. ♂.   | United States.                    |                            |
| b. ♂.   | Nova Scotia.                      | Lieut. Redman.             |
| c-e. ♀. | St. Martin's Falls, Albany River, | Dr. Barnston.              |
|         | Hudson's Bay.                     |                            |
| f. ♀.   | California.                       | Voyage of H.M.S. 'Herald.' |

39. *Sirex melancholicus*.

*Sirex melancholicus*, *Westw. Thes. Ent. Oxon.* p. 116, pl. xxi. fig. 8  
 (1874).  
*Hab.* North America.

40. *Sirex morrisoni*.

*Urocerus morrisoni*, *Cress. Trans. Amer. Ent. Soc.* i. p. 35 (1880).  
*Hab.* Colorado, Utah, Washington Territory.

---

\* Closely allied to *S. spectrum*, L.

C. *Indian Species.*41. *Sirex imperialis.*

(Plate XV. fig. 5.)

Exp. al. 1 poll. 10 lin., long. corp. 1 poll. 2 lin.

Uniform steel-blue, shining; wings fusco-hyaline, with black nervures, and strongly iridescent; second brachial cell with complete inner cross line.

*Hab.* India.

a. ♀. (Type.)

North India.

Capt. Boyes.

42. *Sirex xanthus.*

(Plate XV. fig. 7.)

*Sirex xanthus*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 471.

Exp. al. 1 poll. 10 lin., long. corp. 1 poll. 3 lin.

Testaceous yellow; antennæ and abdomen rufo-testaceous; ocelli, an impressed line on the vertex behind them, a spot between the antennæ, tips of mandibles, the front and sides of the mesothorax, the metathorax, and the pectus black, with a large yellowish spot on the sides in front. Sides of abdomen brown, visible above on the sides of the terminal segment in front. Wings deep yellowish hyaline, with reddish-brown nervures; second brachial cell with no inner cross line.

*Hab.* India.

a. ♀. (Type.)

Nargund.

Capt. Laing.

D. *Australian Species.*43. *Sirex australis.*

(Plate XV. fig. 12.)

Exp. al. 1 poll. 4 lin., long. corp. 11 lin.

Head blue, thorax and first segment of the abdomen greenish blue, remainder of abdomen bronzy violet. Head and basal segment of abdomen finely punctured, thorax more coarsely so; prothorax and cheeks densely hairy; antennæ with the basal half luteous, and the terminal half piceous, the division between the colours not sharply defined; under surface of body duller blue; base of ovipositor luteous; coxæ violet; legs luteous. Wings hyaline, yellowish hyaline beyond the middle; second radial cell with the transverse nervure only extending half across.

Allied to *S. juvenus*.*Hab.* Australia.

a. ♀. (Type.)

Australia.

J. Macgillivray.

## 6. TREMEX.

*Tremex*, *Jur. Hym.* p. 80 (1807).

*Xyloterus*, *Hart. Blattw.* p. 385 (1837).

*Xylæcematium*, *Heyden, Berl. ent. Zeitschr.* xii. p. 227 (1868).

1. *Tremex fuscicornis*.

*Sirex fuscicornis*, *Fabr. Mant. Ins.* i. p. 257, n. 6 (1787); *Klug, Mon.*

*Sir. Germ.* p. 41, pl. v. fig. 5 (1803); *Hart. Blattw.* p. 387 (1837);

*Stein, Ent. Nachr.* vii. p. 74 (1881).

*Sirex camelogigas*, *Christ, Ins.* p. 411, pl. lxvi. fig. 1 (1791).

*Hab.* Europe.

|       |          |              |
|-------|----------|--------------|
| a. ♀. | Lyons.   | F. Walker.   |
| b. ♀. | Germany. | J. F. Ruthe. |
| c. ♀. | Europe.  |              |

2. *Tremex magus*.

*Sirex magus*, *Fabr. Mant. Ins.* i. p. 257, n. 3 (1787); *Klug, Mon.*

*Sir. Germ.* p. 42, pl. v. figs. 2-4 (1803); *Hart. Blattw.* p. 386 (1837).

♂. *Sirex nigrita*, *Fabr. Mant. Ins.* i. p. 258, n. 2 (1787).

*Hab.* Europe.

3. *Tremex columba*.

*Sirex columba*, *Johannsen, Amœn. Acad.* vi. p. 412, n. 88 (1761);  
*Linn. Syst. Nat.* i. pt. 2, p. 929, n. 2 (1767).

*Tremex columba*, *Say, Amer. Ent.* ii. p. 74, pl. xxxiii. fig. 3 (1825);  
*Harr. Ins. Mass.* p. 389 (1841); *Nort. Trans. Amer. Ent. Soc.* ii.  
p. 364 (1869).

*Sirex pensylvanicus*, *De Geer, Hist. Ins.* iii. p. 513, pl. xxx. fig. 13 (1773).

*Tremex obsoletus*, *Say, West. Quart. Rep.* ii. p. 73 (1823); *id. Amer. Ent.* ii. p. 74, pl. xxxii. fig. 2 (1825).

*Sirex cinctus*, *Dru. Ill. Ev. Ent.* ii. pl. xxxviii. fig. 2 (1773).

*Sirex americana*, *Christ, Ins.* p. 412 (1791).

*Hab.* North America.

|           |                |                                   |
|-----------|----------------|-----------------------------------|
| a. ♂.     | Michigan.      | Dr. D. Clark.                     |
| b. ♀.     | West Canada.   | Capt. Ibbetson.                   |
| c, d. ♀.  | North America. | Sir R. Murchison.                 |
| e, f. ♂.  | Nova Scotia.   | Lieut. Redman.                    |
| g. ♀.     | Georgia*.      | Probably from Abbot's collection. |
| h-l. ♂ ♀. | North America. |                                   |

4. *Tremex sericeus*.

*Tremex sericeus*, *Say, West. Quart. Rep.* ii. p. 13 (1823); *id. Amer.*

\* Abbot met with this species in oak-woods in September.

*Ent.* ii. p. 73, pl. xxxii. fig. 1 (1825); *Nort. Trans. Amer. Ent. Soc.* ii. p. 366 (1869).

*Tremex servillei*, *Brullé*, *Hym.* iv. p. 645, pl. xlv. fig. 2 (1846).

*Hab.* United States.

|                   |                |                                   |
|-------------------|----------------|-----------------------------------|
| <i>a.</i> ♂.      | Georgia.       | Probably from Abbot's collection. |
| <i>b.</i> ♀.      | St. Louis.     | E. Doubleday.                     |
| <i>c, d.</i> ♂ ♀. | United States? |                                   |

### 5. *Tremex maurus*.

*Tremex maurus*, *Westw. Thes. Ent. Oxon.* p. 116, pl. xxi. fig. 3 (1874).

*Hab.* North America.

### 6. *Tremex pandora*.

*Tremex pandora*, *Westw. Thes. Ent. Oxon.* p. 116, pl. xxi. fig. 9 (1874).

*Hab.* China.

|              |           |             |
|--------------|-----------|-------------|
| <i>a.</i> ♂. | Shanghai. | R. Fortune. |
|--------------|-----------|-------------|

### 7. *Tremex smithii*.

(Plate XV. fig. 1.)

*Tremex smithi*, *Cameron, Trans. Ent. Soc. Lond.* 1876, p. 470.

*Exp. al.* 1 poll. 3 lin., long. corp. 1 poll.

Blue-black; face hairy, head and thorax very closely punctured. First and second segments of the abdomen bordered behind with testaceous yellow, the second very narrowly; the third and fourth slightly, and the fifth more distinctly, at the sides only. The first six segments of the abdomen have a strong purplish lustre; the remainder are dull, coarsely punctured, and clothed with short grey hairs. Terebra, and base of hind tibiæ and of first hind tarsus, testaceous yellow. Wings purplish hyaline, with piceous nervures; second brachial cell in the fore wings, and the middle of the hind wings, hyaline.

A male specimen from the same collection, which may possibly belong to this species, is larger (*exp. al.* 1 poll. 11 lin., long. corp. 1 poll. 1 lin.), with no pale markings on the abdomen or legs, and the abdomen is slightly tinged with chestnut-colour, and finely punctured.

*Hab.* East Indies.

|                      |              |
|----------------------|--------------|
| <i>a.</i> ♀. (Type.) | East Indies. |
| <i>b.</i> ♂ (?).     | East Indies. |

### 8. *Tremex rugicollis*.

*Tremex rugicollis*, *Westw. Thes. Ent. Oxon.* p. 117, pl. xx. fig. 9 (1874).

*Hab.* Philippines.

9. *Tremex insignis*.

*Tremex insignis*, *Smith, Journ. Linn. Soc.* iv. p. 178 (1860).

*Hab.* Aru.

10. *Tremex purpureipennis*.

*Tremex purpureipennis*, *Westw. Thes. Ent. Oxon.* p. 117 (1874).

*Hab.* Malacca.

11. *Tremex insularis*.

*Tremex insularis*, *Smith, Journ. Linn. Soc. Zool.* ii. p. 117 (1858).

*Hab.* Sarawak.

## 7. TEREDONIA.

*Teredon*, *Nort. Trans. Amer. Ent. Soc.* ii. p. 366 (1869), *nom. præocc.*

1. *Teredonia cubensis*.

*Tremex cubensis*, *Cress. Proc. Ent. Soc. Phil.* iv. p. 2 (1865).

*Hab.* Cuba.

2. *Teredonia latitarsis*.

*Tremex latitarsus*, *Cress. Proc. Ent. Soc. Phil.* iv. p. 3, fig. 1 (1865).

*Hab.* Cuba.



## ADDENDA.

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### Page 1. *Cimbex femorata*.

Add :—

|                        |              |               |
|------------------------|--------------|---------------|
| <i>r.</i> ♂.           | Germany (?). | H. Buchecker. |
| <i>s.</i> (Pupa-case). | Germany (?). | H. Buchecker. |

### Page 2. *Cimbex lutea*.

Add :—

|                              |             |               |
|------------------------------|-------------|---------------|
| <i>ff-hh.</i> ♂ ♀.           | Munich.     | H. Buchecker. |
| <i>ii, kk.</i> (Pupa-cases.) | Munich (?). | H. Buchecker. |

### Page 3. *Cimbex connata*.

Add :—

|                        |              |               |
|------------------------|--------------|---------------|
| <i>p.</i> ♀.           | Mombach.     | H. Buchecker. |
| <i>q.</i> (Pupa-case.) | Germany (?). | H. Buchecker. |

### Page 4. *Cimbex sibirica*.

Add :—

(Plate XVI. fig. 3.)

|              |                  |             |
|--------------|------------------|-------------|
| <i>d.</i> ♂. | Salair, Siberia. | Dr. Finsch. |
|--------------|------------------|-------------|

Exp. al. 1 poll. 6 lin., long. corp.  $9\frac{1}{2}$  lin.

Male closely resembles *C. violacea* ♂. Head, thorax, and greater part of legs deep black; abdomen rufous, blackish at base and towards the tip above. Antennæ, tarsi, and tips of hind tibiæ testaceous; trochanters rufous, and surmounted by a white crescent; knees white beneath. Wings hyaline, with piceous nervures, tips dusky. (The right hind wing has three radial cells instead of two.)

### Page 8. *Trichiosoma lucorum*.

Add :—

|                    |                  |               |
|--------------------|------------------|---------------|
| <i>gg-kk.</i> ♂ ♀. | Zurich.          | H. Buchecker. |
| <i>ll.</i> ♀.      | Salair, Siberia. | Dr. Finsch.   |

### Page 10. *Trichiosoma vitellina*.

Add :—

|                        |              |               |
|------------------------|--------------|---------------|
| <i>r.</i> ♂.           | Munich.      | H. Buchecker. |
| <i>s.</i> (Pupa-case.) | Germany (?). | H. Buchecker. |

Add :— Page 12. **Praia taczanowskii.**

*Praia taczanowskii*, *André, Spec. Hym. i. p. 572 (1881).*

Add :— Page 13. **Zaræa fasciata.**

*l-n.* ♀.  
*o-q.* ♀.

Zurich.  
Munich.

H. Buchecker.  
H. Buchecker.

Add :— Page 13. **Abia nitens.**

*u-z.* ♂ ♀.  
*aa.* ♂.  
*bb-dd.* ♂ ♀.

Munich.  
Germany (?).  
Zurich.

H. Buchecker.  
H. Buchecker.  
H. Buchecker.

Page 14. **Abia brevicornis.**

Add :— (Plate XVI. fig. 4, nec fig. 2.)

*d-e.* ♀.  
*f-i.* ♂ ♀.

Munich.  
Zurich.

H. Buchecker.  
H. Buchecker.

Add :— Page 14. **Abia aurulenta.**

*Abia aurulenta*, *Sich. Ann. Soc. Ent. Fr. (3) v. p. 488, pl. x. figs. 2 & 3 (1866).*

Add :— Page 14. **Abia fulgens.**

*Abia fulgens*, *Marq. Bull. Soc. Toulouse, xiii. p. 131 (1879).*

Add :— Page 14. **Abia loniceræ.**

*r.* ♂.

Zurich.

H. Buchecker.

Add :— Page 15. **Amasis obscura.**

*g-k.* ♂ ♀.

Zurich.

H. Buchecker.

Add :— Page 16. **Amasis crassicornis.**

*g.* ♂.

Zurich.

H. Buchecker.

Page 16. Add the following species :—

5a. **Amasis similis.**

*Amasis similis*, *Mocs. Term. füzetek, iv. p. 267 (1880); André, Spec. Hym. i. p. 573 (1881); Annales de la Soc. Ent. de France, (6) i. p. 346 (1881).*

*Hab.* Beyrout.

Page 34. Add the following species :—

7. *Sericocera krugii*.

*Schizocera krugii*, *Cress.* (Vide p. 38. n. 23.)

*Schizocerus zaddachi*, *Dewitz, Berl. ent. Zeitschr.* xxv. p. 207, pl. v. figs. 12, 12A (1881).

*Hab.* Porto Rico

Add :— Page 35. *Schizocerus furcatus*.

*i-m.* ♂ ♀. Munich. H. Buchecker.

Add :— Page 36. *Schizocerus melanurus*.

*b.* ♀. Zurich. H. Buchecker.

Add :— Page 36. *Schizocerus melanocephalus*.

*c, d.* ♀. Munich. H. Buchecker.  
*e-g.* ♀. Lägern Mountain, near Zurich. H. Buchecker.

Page 38. Add a genus and species :—

20a. *NEMATONEURA*.

*Nematoneura*, *André, Spec. Hym.* i. p. 576 (1881).

1. *Nematoneura violaceipennis*.

*Nematoneura violaceipennis*, *André, Spec. Hym.* i. p. 577 (1881).

*Hab.* Caucasus.

Add :— Page 49. *Hemidianeura gonagra*.

*a.* ♀. Argentine Republic. Dr. Burmeister.

Add :— Page 55. *Hylotoma pullata*.

*a.* ♀. Munich. H. Buchecker.  
*b, c.* ♂ ♀. Zurich. H. Buchecker.  
*d.* ♀. Uto Mountain, near Zurich. H. Buchecker.  
*e.* ♀. Katzenssee. H. Buchecker.

Add :— Page 55. *Hylotoma violacea*.

*d-h.* ♂ ♀. Munich. H. Buchecker.  
*i, k.* ♂ ♀. Zurich. H. Buchecker.  
*l-n.* ♂ ♀. Siberia. Dr. Finsch.

Add :— Page 55. *Hylotoma berberidis*.

*d-i.* ♂ ♀. Munich. H. Buchecker.  
*k-p.* ♂ ♀. Zurich. H. Buchecker.

|                   |                                     |               |
|-------------------|-------------------------------------|---------------|
| Add:—             | Page 56. <i>Hylotoma cyanella</i> . |               |
| <i>b-g</i> . ♂ ♀. | Munich.                             | H. Buchecker. |
| <i>h</i> . ♂.     | Zurich.                             | H. Buchecker. |
| <i>i</i> . ♂.     | Lägern Mountain, near Zurich.       | H. Buchecker. |

|               |                                     |               |
|---------------|-------------------------------------|---------------|
| Add:—         | Page 56. <i>Hylotoma ciliaris</i> . |               |
| <i>c</i> . ♂. | Munich.                             | H. Buchecker. |
| <i>d</i> . ♂. | Zurich.                             | H. Buchecker. |

|                     |                                     |               |
|---------------------|-------------------------------------|---------------|
| Add:—               | Page 57. <i>Hylotoma ustulata</i> . |               |
| <i>ll-oo</i> . ♂ ♀. | Munich.                             | H. Buchecker. |
| <i>pp-uu</i> . ♂ ♀. | Zurich.                             | H. Buchecker. |

|                  |                                   |               |
|------------------|-----------------------------------|---------------|
| Add:—            | Page 57. <i>Hylotoma atrata</i> . |               |
| <i>s, t</i> . ♀. | Munich.                           | H. Buchecker. |
| <i>u</i> . ♀.    | Zurich.                           | H. Buchecker. |
| <i>v</i> . ♀.    | Siberia.                          | Dr. Finsch.   |

|                   |                                   |               |
|-------------------|-----------------------------------|---------------|
| Add:—             | Page 58. <i>Hylotoma pagana</i> . |               |
| <i>t</i> . ♀.     | Munich.                           | H. Buchecker. |
| <i>u-x</i> . ♂ ♀. | Zurich.                           | H. Buchecker. |
| <i>y</i> . ♀.     | Lägern Mountain, near Zurich.     | H. Buchecker. |

|                    |                                      |               |
|--------------------|--------------------------------------|---------------|
| Add:—              | Page 59. <i>Hylotoma dimidiata</i> . |               |
| <i>a, b</i> . ♂ ♀. | Zurich.                              | H. Buchecker. |
| <i>c</i> . ♀.      | Zurich (?).                          | H. Buchecker. |

|                    |   |               |
|--------------------|---|---------------|
| Add:—              | Page 59. <i>Hylotoma cyaneocrocea</i> . |               |
| <i>u-z</i> . ♂ ♀.  | Munich.                                 | H. Buchecker. |
| <i>aa, bb</i> . ♂. | Zurich.                                 | H. Buchecker. |

|                   |                                       |               |
|-------------------|---------------------------------------|---------------|
| Add:—             | Page 59. <i>Hylotoma melanochra</i> . |               |
| <i>r</i> . ♂.     | Munich.                               | H. Buchecker. |
| <i>s-w</i> . ♂ ♀. | Zurich.                               | H. Buchecker. |
| <i>x-z</i> . ♂ ♀. | Lägern Mountain, near Zurich.         | H. Buchecker. |

|                   |                                 |               |
|-------------------|---------------------------------|---------------|
| Add:—             | Page 60. <i>Hylotoma rosæ</i> . |               |
| <i>s-v</i> . ♂ ♀. | Munich.                         | H. Buchecker. |
| <i>w-z</i> . ♀.   | Zurich.                         | H. Buchecker. |
| <i>aa</i> . ♀.    | Hungary.                        | H. Buchecker. |

|       |   |  |
|-------|---|--|
| Add:— | Page 61. <i>Hylotoma sanguinicollis</i> . |  |
|-------|---|--|

*Hylotoma sanguinicollis*, *André, Spec. Hym.* i. p. 574 (1881); *Annales de la Soc. Ent. de France*, (6) i. p. 249 (1881).

Page 61. Add five species:—

**34a. *Hylotoma flavomixta*.**

*Hylotoma flavomixta*, André, *Spec. Hym.* i. p. 574 (1881).

*Hab.* Irkutsk.

**34b. *Hylotoma syriaca*.**

*Hylotoma syriaca*, Mocs. *Term. füzetek*, iv. p. 267 (1880); André, *Spec. Hym.* i. p. 575 (1881); *id. Annales de la Soc. Ent. de France*, (6) i. p. 249 (1881).

*Hab.* Syria.

**34c. *Hylotoma scita*.**

*Hylotoma scita*, Mocs. *Term. füzetek*, iv. p. 267 (1880); André, *Spec. Hym.* i. p. 575 (1881); *id. Annales de la Soc. Ent. de France*, (6) i. p. 348 (1881).

*Hab.* Beyrout, Rhodes.

**34d. *Hylotoma versicolor*.**

*Hylotoma versicolor*, André, *Annales de la Soc. Ent. de France*, (6) i. p. 438 (1882).

*Hab.* Tashkend.

**34e. *Hylotoma proxima*.**

*Hylotoma proxima*, André, *Spec. Hym.* i. p. 576 (1881); *id. Annales de la Soc. Ent. de France*, (6) i. p. 347 (1881).

*Hab.* Syria.

Add:— Page 72. ***Hylotoma interstitialis*.**

*Hylotoma interstitialis*, Waterh. *Aid to the Identification of Insects*, i. pl. lxxxi. (1881).

Add:— Page 76. ***Hylotoma massajæ*.**

*Hylotoma massajæ*, Gribodo, *Ann. Mus. Genov.* xvi. p. 268 (1881).

Add:— Page 83. ***Lophyrus hercyniæ*.**

a. ♀. Munich. H. Buchecker.

Add:— Page 83. ***Lophyrus dorsatus*.**

e. ♀. Munich. H. Buchecker.  
f. ♀. Zurich. H. Buchecker.

Add:— Page 84. ***Lophyrus pini*.**

r. ♀ and pupa-case. Munich. H. Buchecker.

Add:— Page 85. **Lophyrus sertiferus.**  
*bb.* ♂. Zurich. H. Buchecker.

Page 89. Add a species:—

3*a.* **Monoctenus andréi.**

*Monoctenus andréi*, *Mocs. Term. füzetek*, iv. p. 267 (1880).  
*Hab.* Brussa.

Add:— Page 98. **Cladius pectinicornis.**  
*ee.* ♂. Munich. H. Buchecker.  
*ff-kk.* ♂ ♀. Zurich. H. Buchecker.  
*ll-mm.* ♂. Lägern Mountain, near Zurich. H. Buchecker.

Add:— Page 98. **Trichiocampus viminalis.**  
*Cladius luteiventris*, *Dahlb. Prodr. Hym. Scand.* p. 103 (1836).  
*o.* ♀. England. G. Taylor, Esq.

Add:— Page 100. **Trichiocampus discrepans.**  
*a, b.* ♂ ♀. Munich. H. Buchecker.

Add:— Page 100. **Priophorus padi.**  
*fff, ggg.\** Munich. H. Buchecker.  
*hhh.* ♀. Zurich. H. Buchecker.

Add:— Page 100. **Priophorus brullei.**  
*a.* ♀. Munich. H. Buchecker.

Add:— Page 100. **Priophorus tener.**  
*a, b.* ♀. Munich. H. Buchecker.

Add:— Page 101. **Priophorus tristis.**  
*a-d.* ♀. Munich. H. Buchecker.

Add:— Page 102. **Cræsus septentrionalis.**  
*p-r.* ♂ ♀. Munich. H. Buchecker.

Add:— Page 102. **Cræsus brischkii.**  
*a.* ♀. Munich. H. Buchecker.

Add:— Page 104. **Nematus lucidus.**  
*k. ♀.* Munich. H. Buchecker.

Page 105. Add a species:—

10 *a.* **Nematus superbus.**

*Nematus superbus*, *Gratl. Ent. Nachr.* vii. p. 299 (1881).

*Hab.* Egerland.

Add:— Page 106. **Nematus hæmorrhoidalis.**  
*bb, cc. ♂ ♀.* Munich. H. Buchecker.  
*dd. ♀.* Zurich. H. Buchecker.

Add:— Page 107. **Nematus anomalopterus.**  
*a. ♂.* Munich. H. Buchecker.

Add:— Page 108. **Nematus capreæ.**  
*oo-rr. ♂ ♀.* Munich. H. Buchecker.  
*ss. ♂.* Hamburg. H. Buchecker.  
*tt, uu. ♂ ♀.* Zurich. H. Buchecker.  
*vv. ♀.* Germany (?). H. Buchecker.

Add:— Page 115. **Nematus propinquus.**  
*o. ♂.* England. G. Taylor, Esq.  
*p, q. ♂ ♀.* Munich. H. Buchecker.

Read:— Page 115. No. 96.

**Nematus palliditarsus.**

*Nematus brachyacanthus*, var. *palliditarsus*, *Cam. Proc. N. H. Soc. Glasg.* ii. p. 313 (1875).

*Nematus gelidus*, *Kirb.*

Add:— Page 116. **Nematus zetterstedtii.**  
*b-e. ♂.* Munich. H. Buchecker.

Add:— Page 116. **Nematus pallipes.**  
*a. ♀.* Munich. H. Buchecker.

Add:— Page 117. **Nematus alpinus.**  
*b. ♀.* Zurich. H. Buchecker.

Page 118. Add a species:—

114 *a.* **Nematus scoticus.**

*Nematus scoticus*, *Cam. Trans. Ent. Soc. Lond.* 1881, p. 563.

*Hab.* Braemar.

Add:— Page 118. **Nematus tischbeini.**  
*a.* ♀. Munich. H. Buchecker.

Add:— Page 119. **Nematus fulvipes.**  
*h-m.* ♂ ♀. Munich. H. Buchecker.  
*n.* ♀. Zurich. H. Buchecker  
*o.* ♂. Munich (?). H. Buchecker.

Page 119. Add the following species:—

123 *a.* **Nematus congener.**

*Tenthredo flavipes*, Zett. (*nec Hart.*), *Ins. Lapp.* p. 350, n. 46 (1840).  
*Hab.* Lapland.

Add:— Page 120. **Nematus crassicornis.**  
*b.* ♂. Zurich. H. Buchecker.

Read:— Page 123. No. 155.

**Nematus valesiacus.**

*Nematus leucocarpus*, *André*, (*nec Hart.*).

Add:— Page 124. **Nematus leucogaster.**  
*a, b.* ♀. Munich. H. Buchecker.  
*c.* ♀. Zurich. H. Buchecker.

Add:— Page 124. **Nematus abdominalis.**  
*y.* ♂. Munich. H. Buchecker.

Add:— Page 124. **Nematus ruficapillus.**  
*Nematus luteus*, var. *trimaculatus*, *Cam. Proc. N. H. Soc. Glasg.* ii.  
 p. 259 (1875).  
*t.* ♀. Munich. H. Buchecker.

Add:— Page 125. **Nematus flavescens.**  
*b.* ♂. Munich. H. Buchecker.

Page 126. Add two species:—

169 *a.* **Nematus nebulosus.**

*Nematus nebulosus*, *Stein*, *Ent. Nachr.* vii. p. 62 (1881).  
*Hab.* Chodau.

170 *a.* **Nematus smaragdinus.**

*Nematus smaragdinus*, *Stein*, *Ent. Nachr.* vii. p. 60 (1881).  
*Hab.* Chodau.



- Add:—  
*g-u.* ♂ ♀.  
 Page 126. **Nematus inflatus.**  
 Munich. H. Buchecker.
- Add:—  
*bb.* ♀.  
 Page 128. **Nematus ribesii.**  
 Munich. H. Buchecker.
- Add:—  
*s-w.* ♀.  
 Page 129. **Nematus tibialis.**  
 Zurich. H. Buchecker.
- Add:—  
*fff-iii.* ♂ ♀.  
*kkk-rrr.* ♂ ♀.  
 Page 129. **Nematus papillosus.**  
 Munich. H. Buchecker.  
 Zurich. H. Buchecker.
- Add:—  
*k, l.* ♂ ♀.  
 Page 132. **Nematus albipennis.**  
 Munich. H. Buchecker.
- Add:—  
*a, b.* ♀.  
 Page 133. **Nematus subbifidus.**  
 Munich. H. Buchecker.
- Add:—  
*eee-kkk.* ♀.  
 Page 134. **Nematus miliaris.**  
 Munich. H. Buchecker.
- Page 134. Add two species:—  
 234*a.* **Nematus glutinosæ.**  
*Nematus glutinosæ, Cam. Ent. M. Mag.* xviii. p. 193 (1882).  
*Hab.* Britain.
- 234*b.* **Nematus salicivorus.**  
*Nematus salicivorus, Cam. Ent. M. Mag.* xviii. p. 194 (1882).  
*Hab.* Britain.
- Add:—  
*a-c.* ♂.  
 Page 135. **Nematus scutellatus.**  
 Munich. H. Buchecker.
- Add:—  
*a.* ♀.  
*b.* ♀.  
 Page 135. **Nematus chrysogaster.**  
 Munich. H. Buchecker.  
 Zurich. H. Buchecker.
- Add:—  
*a.* ♀.  
 Page 136. **Nematus parvilabris.**  
 Munich. H. Buchecker.

Page 137. Add a species:—

259 *a.* **Nematus togatus.**

*Nematus togatus*, *André, Spec. Hym.* i. p. 209 (1880).

*Hab.* Germany.

Add:— Page 138. **Nematus viminalis.**

*a.* ♂.

Munich.

H. Buchecker.

*b.* ♂.

Zurich.

H. Buchecker.

Page 139. **Nematus strialipes.**

Previously entered, p. 131, no. 208.

Page 140.

Substitute the following for no. 280. **Nematus umbripennis** (already entered, no. 63, p. 112):—

280. **Nematus (?) segmentatus.**

*Tenthredo segmentata*, *Zett. Ins. Lapp.* p. 354, n. 54 (1840).

*Hab.* Lapland.

280 *a.* **Nematus (?) melanorhœa.**

*Tenthredo melanorhœa*, *Gmel. Syst. Nat.* i. pt. 5, p. 2668, n. 136 (1788).

*Hab.* Europe.

Add:— Page 151. **Euura saliceti.**

*m.* ♀.

Munich.

H. Buchecker.

Add:— Page 152. **Euura angusta.**

*l.* ♀.

Munich.

H. Buchecker.

Add:— Page 153. **Diphadnus fuscicornis.**

*Diphadnus fuscicornis*, *Stein, Ent. Nachr.* vii. p. 63 (1881).

Add:— Page 154. **Dineura stilata.**

*n.* ♀.

Munich.

H. Buchecker.

Page 155. Add a species:—

9 *a.* **Dineura grandis.**

*Dineura grandis*, *André, Annales de la Soc. Ent. de France*, (6) i. p. 438 (1882).

*Hab.* East Siberia.

Add:— Page 155. **Hemichroa alni.**  
*k.* ♀. Munich. H. Buchecker.

Add:— Page 156. **Hemichroa rufa.**  
*q.* ♀. Munich. H. Buchecker.

Add:— Page 156. **Mesoneura verna.**  
*h.* ♀. Munich. H. Buchecker.

Page 157. Add the following species:—

2*a.* **Mesoneura(?) mediocris.**

*Tenthredo mediocris*, *St.-Farg. Enc. Méth.* x. p. 570 (1825).

*Hab.* Paris.

Add:— Page 157. **Mesoneura(?) varinervia.**  
*b.* ♀. Chili. T. Edmonds, Esq.

Add:— Page 158. **Blennocampa tenuicornis.**  
*a.* ♀. Munich. H. Buchecker.

Add:— Page 159. **Blennocampa vernalis.**  
*v-x.* ♀. Munich. H. Buchecker.  
*y.* ♀. Zurich. H. Buchecker.

Page 159. Add a species:—

8*a.* **Blennocampa sanguinicollis.**

*Blennocampa sanguinicollis*, *Mocs. Term. füzetek*, iv. p. 268 (1880);  
*André, Spec. Hym.* i. p. 583 (1881).

*Hab.* Hungary.

Add:— Page 159. **Blennocampa fuliginosa.**  
*cc.* ♀. Munich. H. Buchecker.  
*dd-ff.* ♀. Zurich. H. Buchecker.

Add:— Page 160. **Blennocampa maura.**  
*e, f.* ♀. Zurich. H. Buchecker.

Add:— Page 160. **Blennocampa cinereipes.**  
*f-k.* ♂ ♀. Munich. H. Buchecker.  
*l, m.* ♂ ♀. Zurich. H. Buchecker.

Page 162. Add four species :—

**29 a. Blennocampa (?) dherbesii.**

*Tenthredo dherbes*, *Bosc, Soc. d'Agric. de la Marne*, 1826, p. 22, note.

*Hab.* France.

**29 b. Blennocampa (?) vitis.**

*Tenthredo vitis*, *Vallot, Compte Rendu de l'Acad. Dijon*, 1843-44, p. 51.

*Hab.* France.

**29 c. Blennocampa (?) trunculi.**

*Tenthredo trunculi*, *Vallot, Compte Rendu de l'Acad. Dijon*, 1843-44, p. 51.

*Hab.* France.

**29 d. Blennocampa (?) albilabris.**

*Selandria albilabris*, *Brullé, Expéd. Scient. de Morée*, iii. (1) pt. 2, p. 392 (1832).

*Hab.* Greece.

Add :— Page 169. **Monophadnus melanopygius.**

*Blennocampa melanopygia*, *André, Annales de la Soc. Ent. de France*, (6) i. p. 447 (1882).

Page 171. Add a species :—

**18 a. Monophadnus sulcatus.**

*Blennocampa sulcatus*, *Cam. Ent. M. Mag.* xviii. p. 271 (1882).

*Hab.* England, Germany.

Read :— Page 178. No. 65.

**Monophadnus amazonicus.**

*Monophadnus thoracicus*, *Kirb.* (nec *Tischb.*).

Page 184. Add two species :—

**9 a. Eriocampa imperialis.**

*Holopyga imperialis*, *Gratl, Ent. Nachr.* vii. p. 300 (1881).

*Hab.* Egerland.

**12 a. Eriocampa (?) rufitarsis**

*Selandria rufitarsis*, *Brullé, Expéd. Scient. de Morée*, iii. (1) pt. 2, p. 394 (1832).

*Hab.* Greece.

Page 193. Add a species :—

8. *Phyllotoma nigrescens*.

*Phyllotoma nigrescens*, *Gradl, Ent. Nachr.* vii. p. 298 (1881).

*Hab.* Egerland.

Add :—

Page 195. *Cænoneura dahlbomi*.

a. ♀.

Scotland (?).

P. Cameron, Esq.

Page 195. Add the following species :—

2. *Cænoneura hellmanni*.

*Allantus hellmanni*, *Gimm. Bull. Mosc.* ix. p. 432 (1836).

*Hab.* Kasan.

Add :— Page 196. *Emphytus ferruginosus*.

*Emphytus succinctus*, var. *steini*, *Schmied. Ent. Nachr.* vii. p. 215 (1881).

*Hab.* Thuringia.

Add :— Page 197. *Emphytus cinctus*.

*Tenthredo cingulata*, *Scop. Ent. Carn.* p. 277, n. 726 (1763).

Add :— Page 198. *Emphytus tibialis*.

*Tenthredo varicornis*, *Gmel. Syst. Nat.* i. p. 2666, n. 119 (1789).

Page 203. Add a species :—

47 a. *Emphytus albisternus*.

*Emphytus albisternus*, *André, Annales de la Soc. Ent. de France*, (6) i. p. 439 (1882).

*Hab.* Amoor.

Page 213. Add a species :—

7 a. *Strongylogaster viridis*.

*Strongylogaster viridis*, *Schmied. Ent. Nachr.* vii. p. 214 (1881).

*Hab.* Thuringia.

Page 219. Add a species :—

9 a. *Dolerus rufipes*.

*Dolerus rufipes*, *Gradl, Ent. Nachr.* vii. p. 297 (1881).

*Hab.* Egerland.

Add:— Page 221. *Dolerus timidus*.

*Tenthredo quadricincta*, *Zett. Ins. Lapp.* p. 344, n. 23 (1840).

Add:— Page 228. *Dolerus rugosus*.

*Dolerus fulvinotus*, *André, Annales de la Soc. Ent. de France*, (6) i. p. 439 (1882).

Add:— Page 233. *Athalia spinarum*.

*Athalia spinarum*, var. *orientalis*, *Cam. Trans. Ent. Soc. Lond.* 1877, p. 90.

Add:— Page 237. *Sciapteryx consobrina*.

*Allantus consobrinus*, var. *zwickoviensis*, *Schlecht. Stett. ent. Zeit.* xxxiv. p. 89 (1873).

*Hab.* Zwickau.

Page 237. Add a species:—

4a. *Sciapteryx nigriventris*.

*Sciapteryx nigriventris*, *André, Annales de la Soc. Ent. de France*, (6) i. p. 441 (1882).

*Hab.* Tashkend.

Page 241. Add the following species:—

19a. *Allantus unicinctus*.

*Tenthredo unicincta*, *Brullé, Expéd. Scient. de Morée*, iii. (1) pt. 2, p. 391 (1832).

*Hab.* Greece.

Page 243. Add three species:—

28a. *Allantus melanotus*.

*Allantus melanotus*, *Rud. Stett. ent. Zeit.* xxxiii. p. 139 (1872).

*Hab.* Harz (?).

28b. *Allantus flavipennis*.

*Tenthredo flavipennis*, *Brullé, Expéd. Scient. de Morée*, iii. (1) pt. 2, p. 390, pl. lii. fig. 9 (1832).

*Hab.* Greece.

34a. *Allantus villosus*.

*Tenthredo villosa*, *Brullé, Expéd. Scient. de Morée*, iii. (1) pt. 2, p. 390, pl. lii. fig. 10 (1832).

*Hab.* Greece.

Page 247. Add two species:—

66 a. *Allantus tuberculatus*.

*Allantus tuberculatus*, *André, Annales de la Soc. Ent. de France*, (6) i. p. 441 (1882).

*Hab.* Tashkend.

66 b. *Allantus persicus*.

*Allantus persicus*, *André, Annales de la Soc. Ent. de France*, (6) i. p. 440 (1882).

*Hab.* Teheran.

Page 265. No. 63.

Read:—

*Macrophya jugurtha*.

*Macrophya cognata*, *Kirb.* (nec *Mocs.*).

Page 266. No. 67.

Read:—

*Macrophya mocsaryi*.

*Macrophya lineata*, *Mocs.* (nec *Nort.*).

Page 268. *Macrophya vexator*.

Vide *Harpiphorus vexator*, antè, p. 205.

Page 280. Add a species:—

6. *Perineura bimaculosa*.

*Synairema bimaculosa*, *Marq. Bull. Soc. Toulouse*, xiii. p. 137 (1879).

*Hab.* France.

Page 282. *Tenthredopsis alpina*, *Thoms.*

*T. lividiventris*, *Cam.*, appears to be a distinct species.

Page 284. *Tenthredopsis flavomaculata*.

Omit the entry

a. ♀. Britain. J. F. Stephens.

as the specimen proves, on comparison with types, to belong to *T. nigronotata*.

Page 284. *Tenthredopsis nigronotata*.

Add:—

d. ♀. Britain. J. F. Stephens.  
2 D

Page 284. Add the following species :—

21 a. *Tenthredopsis* (?) *latecincta*.

*Allantus latecinctus*, *Brullé, Expéd. Scient. de Morée*, iii. (1) pt. 2, p. 393, pl. lii. fig. 12 (1832).

*Hab.* Greece.

Page 293. Add the following species :—

39 a. *Tenthredo* (?) *leucomelas*.

*Tenthredo leucomelas*, *Ström, Norsk Vidensk. Selsk. Skrifter*, iv. p. 347 (1768).

*Hab.* Norway.

Add :— Page 296. *Tenthredo maculata*.

? *Tenthredo amœna*, *Marq. Bull. Soc. Toulouse*, xiii. p. 139 (1879).

Add :— Page 296. *Tenthredo flava*.

*Tenthredo flava*, *Poda, Mus. Græc.* p. 103, n. 5 (1761).

Page 296. No. 55.

Read :—

*Tenthredo mocsaryi*.

*Tenthredo mocsaryi*, *André, Spec. Hym.* i. p. 598 (1882).

*Tenthredo menetriesii*, *Kirb.* (= *fallax*, *Mocs.*, nec *Smith*).

Page 297. No. 56.

Read :—

*Tenthredo vespiformis*.

*Tenthredo vespiformis*, *Schrank, Enum. Ins. Austr.* p. 329, n. 662 (1781).

*Tenthredo pallicornis*, *Fabr.* (1798).

*Tenthredo vespoides*, *St.-Farg. Mon. Tenth.* p. 73, n. 220 (1823);  
*id. Faun. Franç.* p. 18, n. 4, pl. iii. fig. 2.

Page 297. Add the following species :—

58 a. *Tenthredo dubia*.

*Tenthredo dubia*, *Ström, Norsk Vidensk. Selsk. Skrifter*, iv. p. 347 (1768).

*Hab.* Norway.

Add :— Page 301. *Tenthredo conspicua*.

? *Tenthredo scapularis*, *St.-Farg. Enc. Méth.* x. p. 569 (1825).

Page 301. Add two species :—

85 a. *Tenthredo* (?) *carbonaria*.

*Tenthredo carbonaria*, *Linn. Syst. Nat.* i. pt. 2, p. 37 (1768).

*Hab.* Europe.



85 b. *Tenthredo* (?) *bimaculata*.

*Allantus bimaculatus*, *Gimm. Bull. Mosc.* ix. p. 431 (1836).

*Hab.* Livonia.

Page 331. Add a species :—

26 a. *Megalodontes lamellatus*.

*Tarpa lamellata*, *André, Annales de la Soc. Ent. de France*, (6) i. p. 442 (1882).

*Hab.* Tashkend.

Page 332, line 9 from bottom.

Erase the reference to *Tenthredo flaviceps*, Retz.

Page 339. No. 38.

Read :—

***Pamphilus hypocinctus*.**

*Lyda semicincta*, *Zadd.* (nec *Nort.*).

Page 343. Add a species :—

59 a. *Pamphilus iridescens*.

*Lyda iridescens*, *André, Annales de la Soc. Ent. de France*, (6) i. p. 443 (1882).

*Hab.* East Siberia.

Page 364. No. 54.

Read :—

***Cephus cressonii*.**

*Cephus abdominalis*, *Cress.* (nec *Latr.*).

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N.B.—This Appendix is brought down to June, 1882.

## ERRATA.

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- Page 14, line 2, for Plate XVI. fig. 2 read Plate XVI. fig. 4.  
,, 62, ,, 22, after *Hylotoma ephippiata*, *Smith*, add (*nec Klug*).  
,, 74, ,, 8, for *Trans. Ent. Soc. Lond.* 1878 read *Trans. &c.* 1877.  
,, 186, ,, 12, for *Monostegia ignotus*, *Nort.*, read *Selandria ignotus*, *Nort.*  
,, 219, ,, 2, for 1885 read 1881.  
,, 241, ,, 8 from bottom, for **Allantus abliventris** read **Allantus albiventris**.  
,, 300, ,, 3, for *Tenthredo albicolor* read *Tenthredo albicolon*.  
,, 305, ,, 19, for *Mostch.* read *Motsch.*

## ALPHABETICAL INDEX.

---

- abaddon (Sirex), 377.  
 abbotii (Hypolæpus), 325.  
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 abbotii (Macrophya), 269.  
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 abbreviatus (Cephus), 363.  
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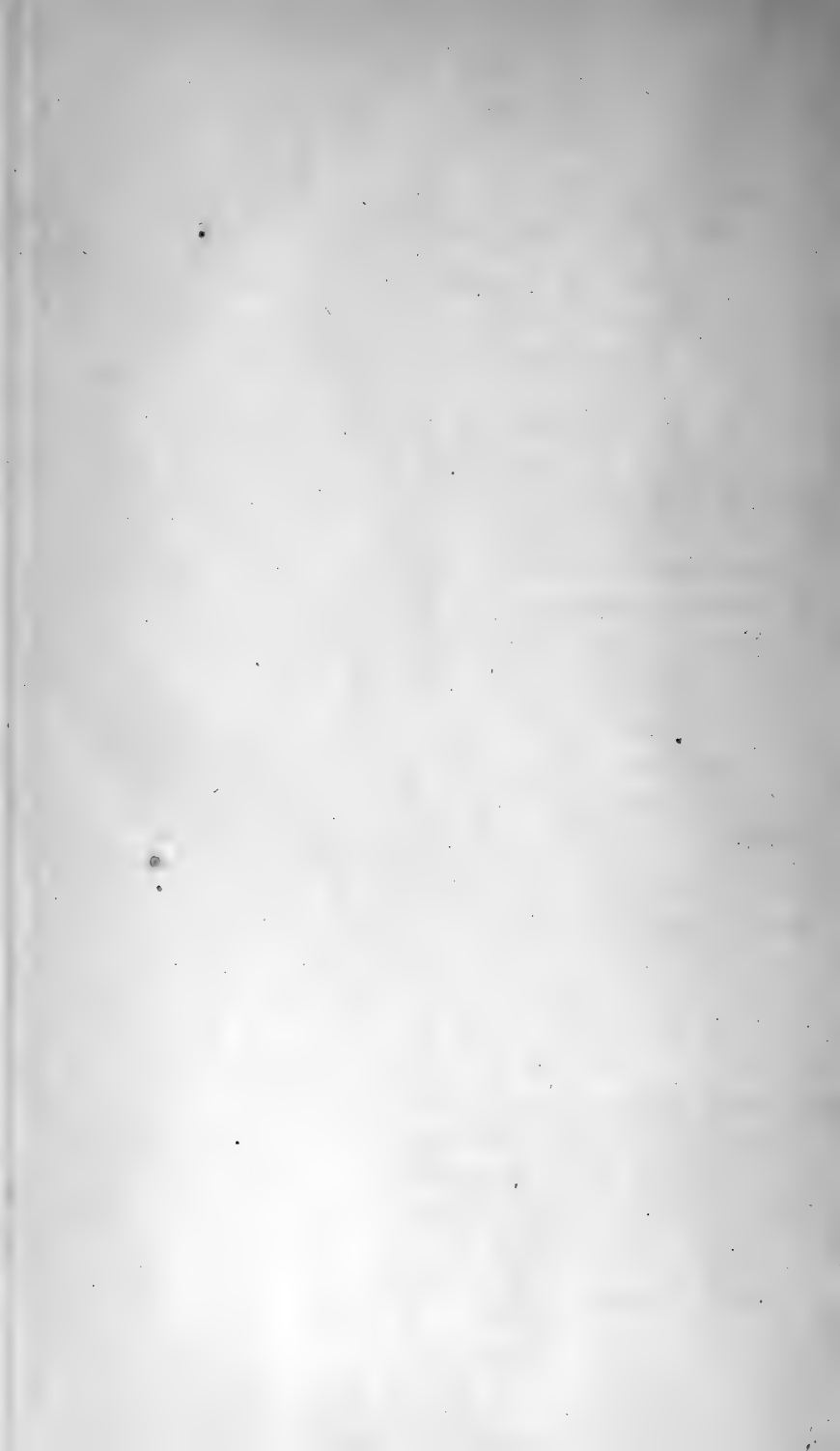
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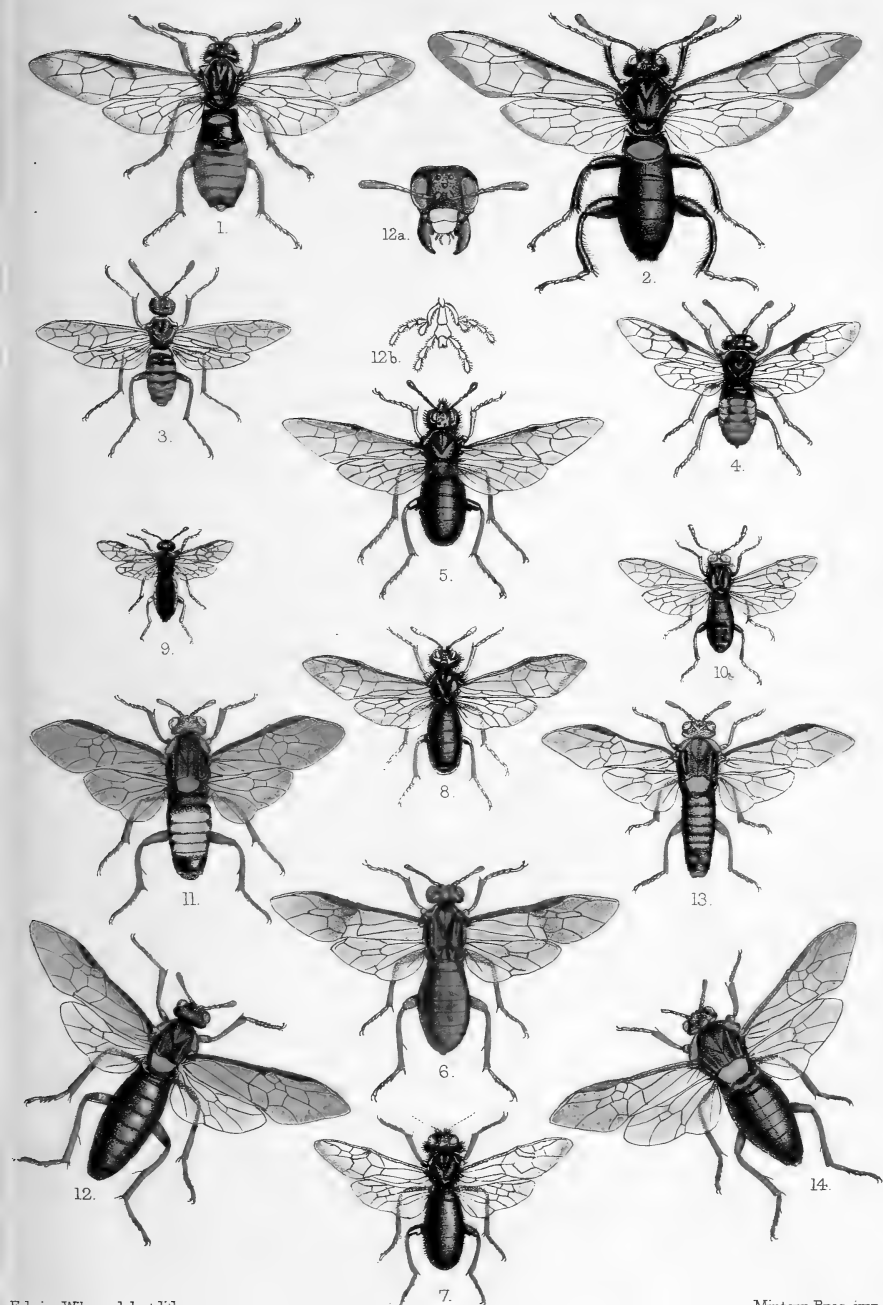
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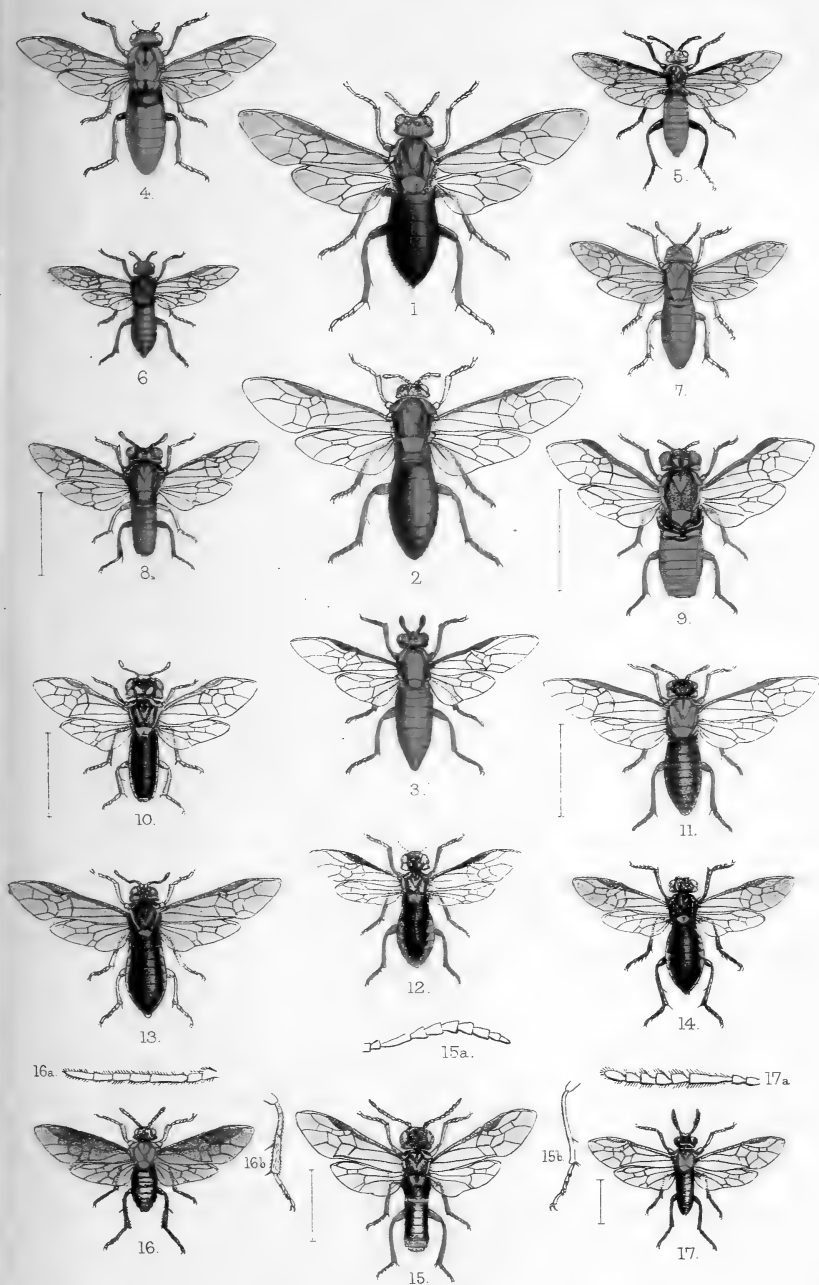


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|--------------------------------|---------------------------------|--------------------------------|
| 1. <i>Cimbex sibirica</i> .    | 5. <i>Trichosoma crassum</i> .  | 9. <i>Amasis subflavata</i> .  |
| 2. <i>Cimbex americana</i> . ♂ | 6. <i>Perga castanea</i> .      | 10. <i>Abia imperialis</i> .   |
| 3. <i>Cimbex ariana</i> .      | 7. <i>Trichosoma arcticum</i>   | 11. <i>Perga dorsalis</i> . ♂. |
| 4. <i>Cimbex hudsonica</i> .   | 8. <i>Trichosoma scalesii</i> . | 12. <i>Perga dorsalis</i> ♀.   |
|                                | 13. <i>Perga affinis</i> ♂.     | 14. <i>Perga affinis</i> ♀.    |

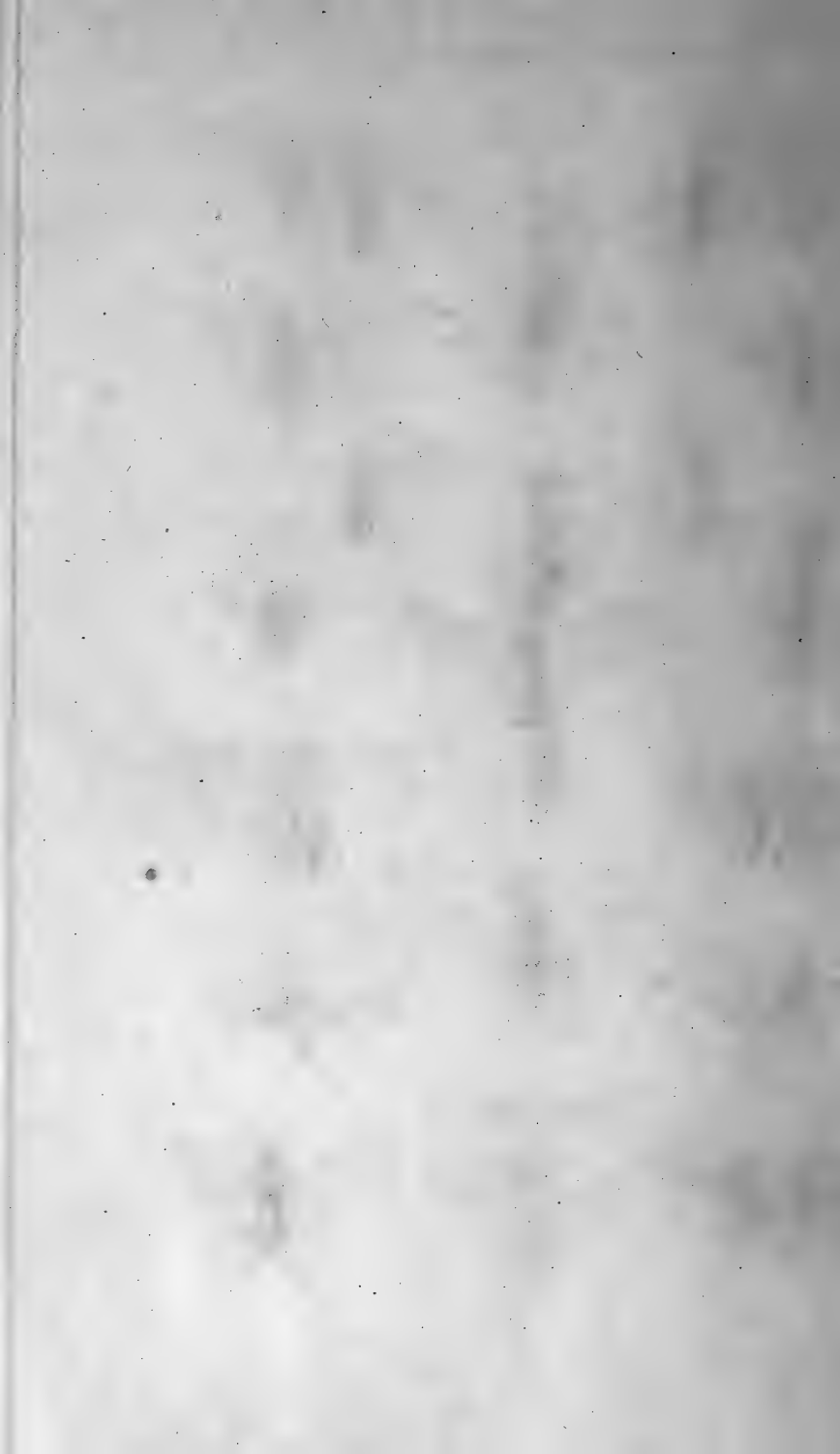


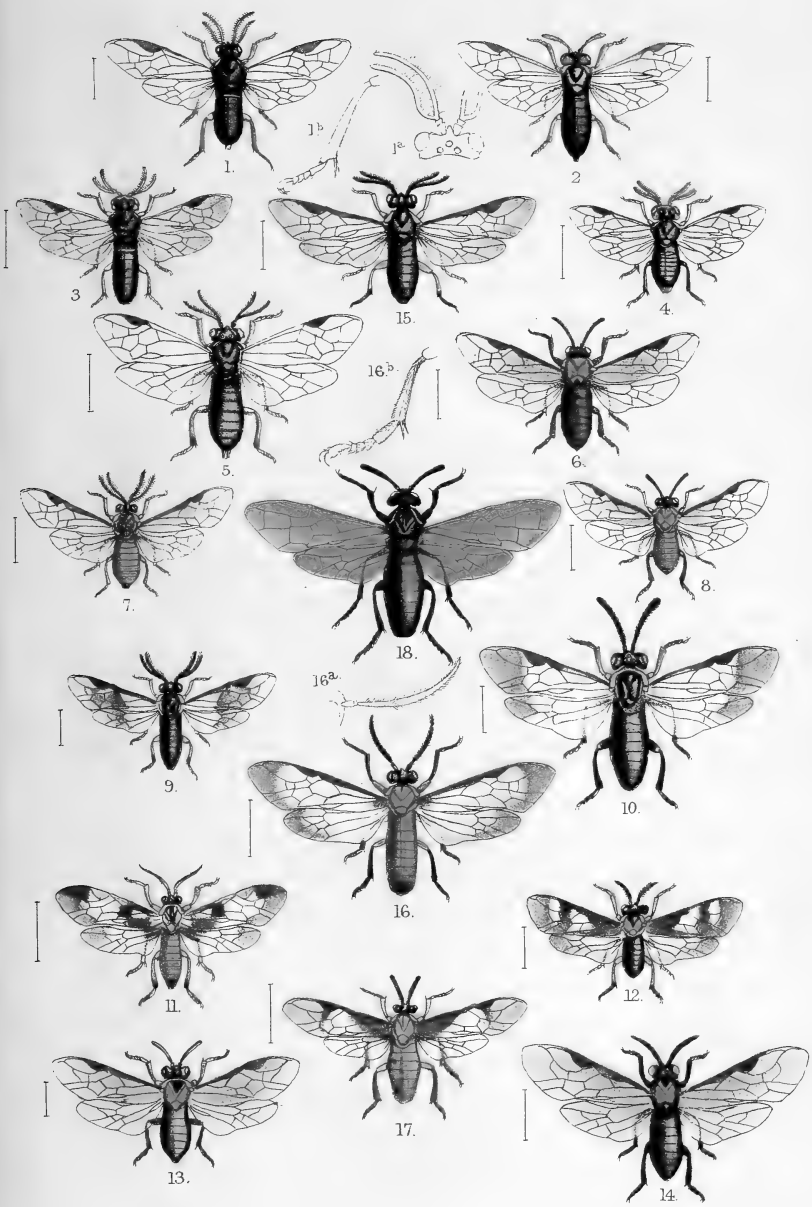


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|----------------------------------|--------------------------------|-----------------------------------|
| 1. <i>Perga polita</i> .         | 6. <i>Perga ferruginea</i> .   | 11. <i>Perga leachii</i> .        |
| 2. <i>Perga kirbyi</i> .         | 7. <i>Perga univittata</i> .   | 12. <i>Perga rufomaculata</i> .   |
| 3. <i>Perga belinda</i> .        | 8. <i>Perga latreillei</i> .   | 13. <i>Perga dentata</i> .        |
| 4. <i>Perga bisecta</i> .        | 9. <i>Perga dubia</i> .        | 14. <i>Perga jucunda</i> .        |
| 5. <i>Perga glabra</i> .         | 10. <i>Perga amena</i> .       | 15. <i>Cerealces scutellata</i> . |
| 16. <i>Incalia hirticornis</i> . | 17. <i>Paralypia picipes</i> . |                                   |



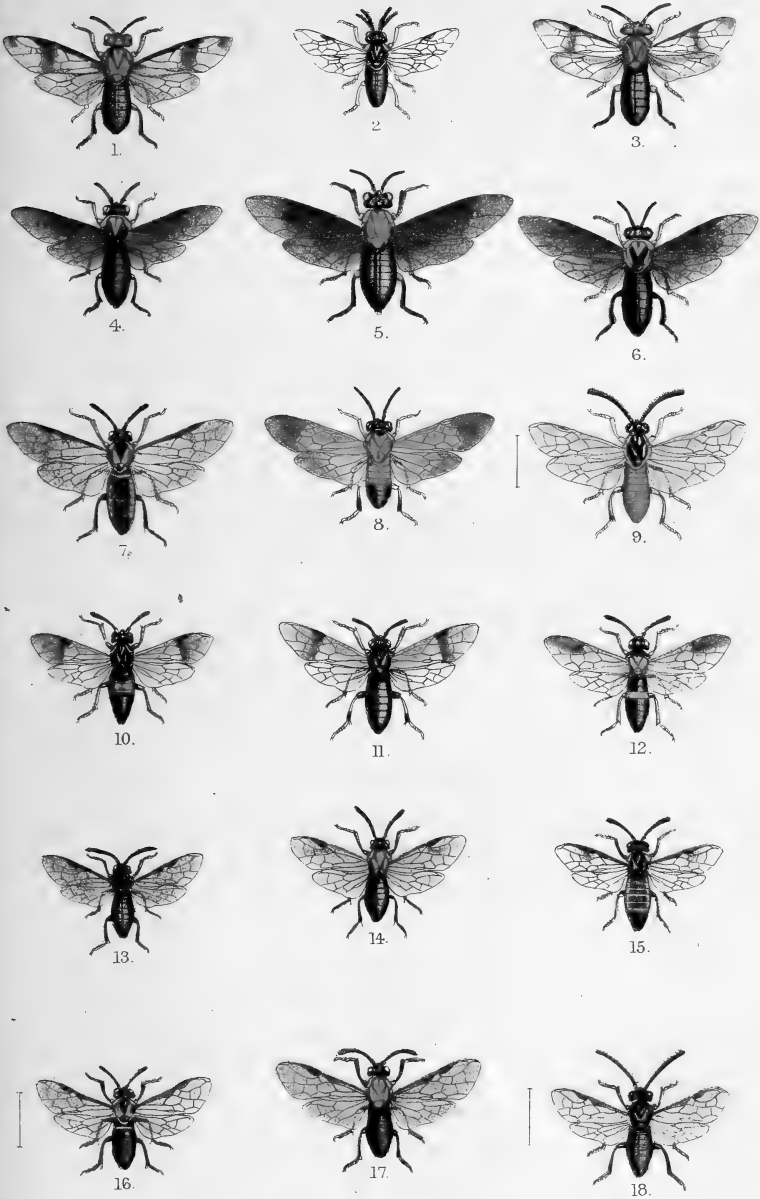


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|---------------------------------------|----------------------------------|---------------------------------------|
| 1. <i>Trichorhachus nitidus</i> ♂     | 7. <i>Schizocerus plumiger</i> ♂ | 13. <i>Ptilia pumilio</i> .           |
| 2. <i>Trichorhachus nitidus</i> ♀     | 8. <i>Schizocerus plumiger</i> ♀ | 14. <i>Ptilia soror</i> .             |
| 3. <i>Trichorhachus sobrinus</i> .    | 9. <i>Gymnia inconspicua</i> ♂   | 15. <i>Hemidianeura scapularis</i> .  |
| 4. <i>Trichorhachus hyalinus</i> .    | 10. <i>Gymnia inconspicua</i> ♀  | 16. <i>Hemidianeura nigricornis</i> . |
| 5. <i>Trichorhachus abdominalis</i> . | 11. <i>Ptilia basipunctata</i> . | 17. <i>Gymnia mexicana</i> .          |
| 6. <i>Scobina bicolor</i> .           | 12. <i>Ptilia bicolor</i> .      | 18. <i>Athermantus imperialis</i> .   |

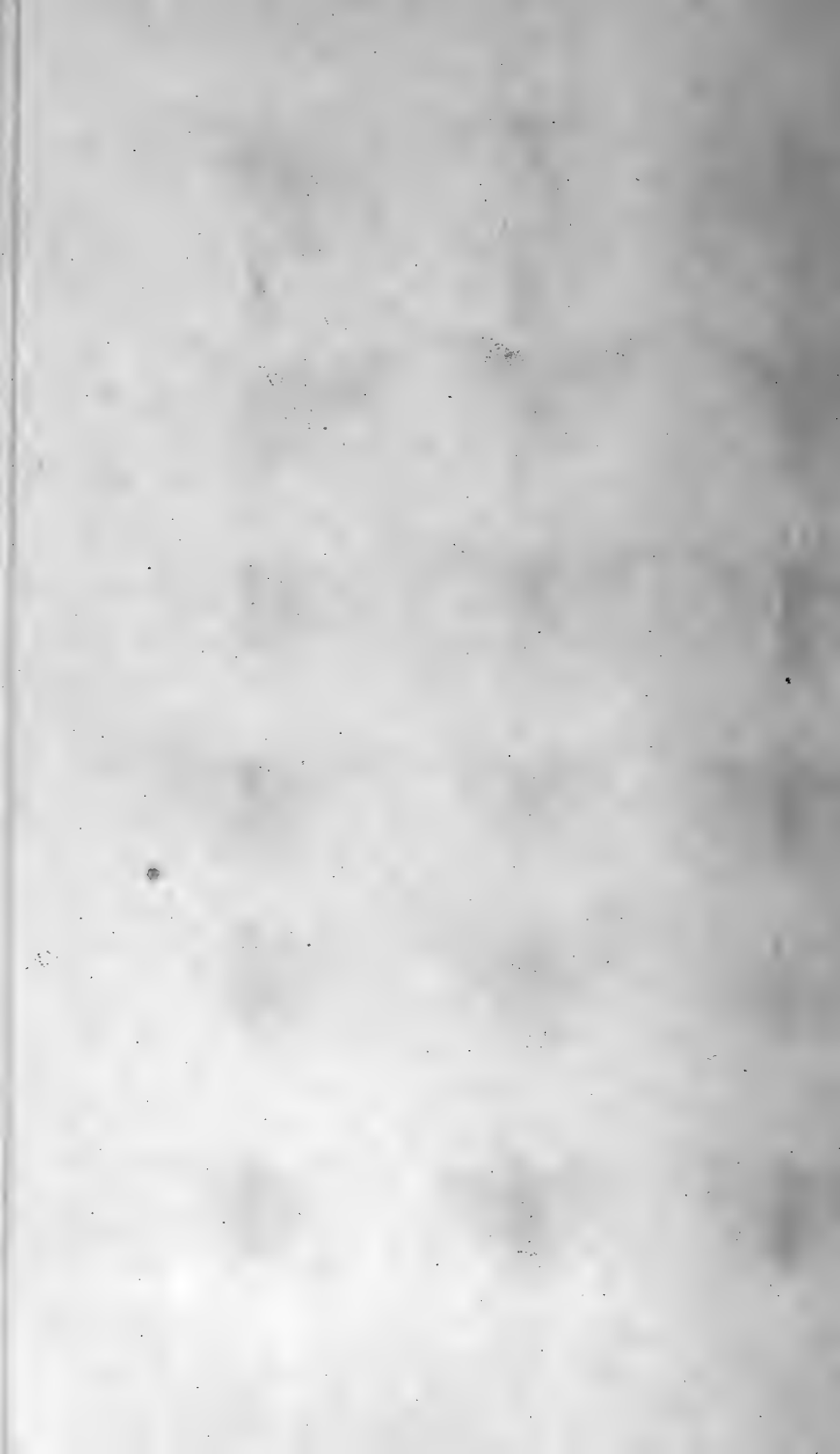




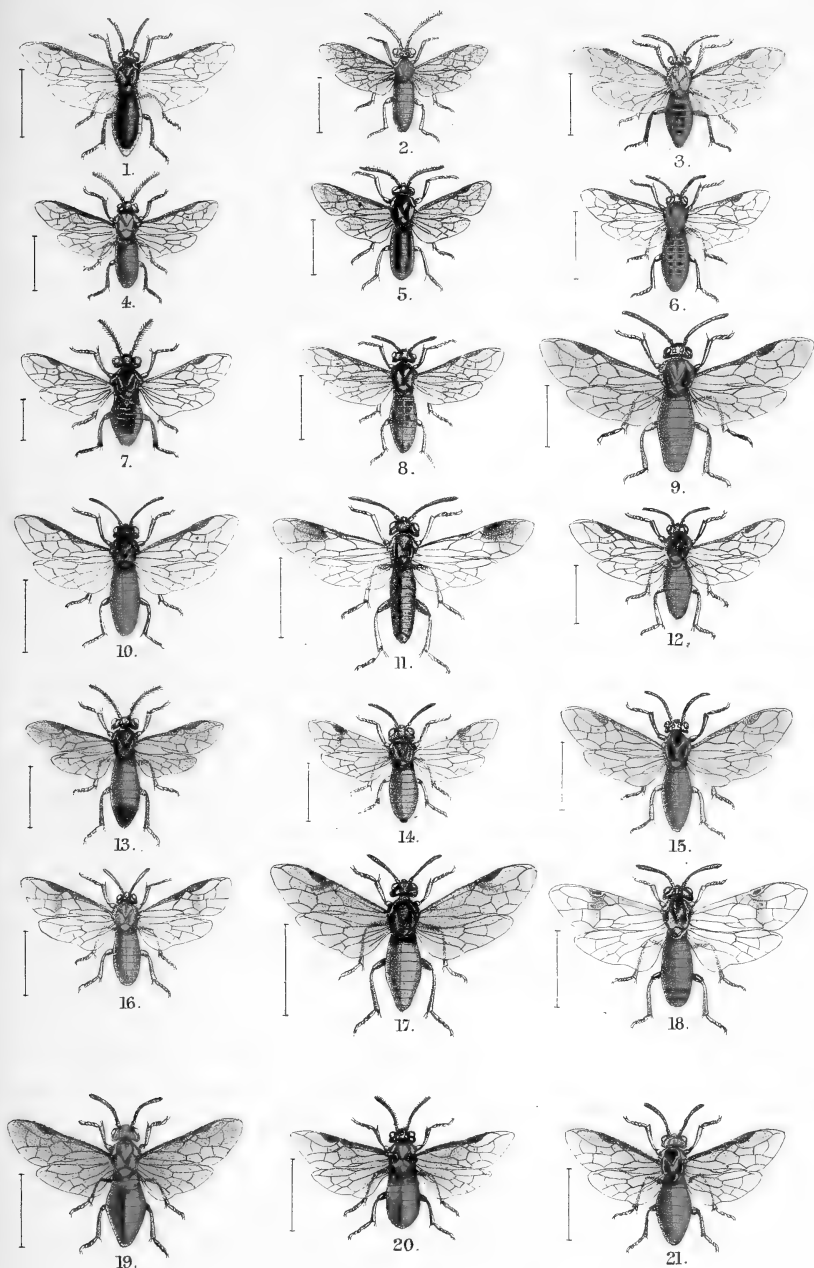
Edwin Wilson. del et lith.

Mintern Bros. imp.

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|--------------------------------|----------------------------------|-----------------------------------|
| 1. <i>Dielocerus ellisii</i> . | 7. <i>Hylotoma andromeda</i> .   | 13. <i>Hylotoma smalis</i> .      |
| 2. <i>Ptenus serratus</i> ♂    | 8. <i>Ptenus atriceps</i> .      | 14. <i>Hylotoma captiva</i> .     |
| 3. <i>Ptenus serratus</i> ♀    | 9. <i>Hylotoma gambiæ</i> .      | 15. <i>Hylotoma dirce</i> .       |
| 4. <i>Ptenus diversipes</i> .  | 10. <i>Hylotoma urania</i> .     | 16. <i>Hylotoma rejecta</i> .     |
| 5. <i>Ptenus violaceus</i> .   | 11. <i>Hylotoma jonasi</i> .     | 17. <i>Hylotoma flavicollis</i> . |
| 6. <i>Ptenus consors</i> .     | 12. <i>Hylotoma albocincta</i> . | 18. <i>Hylotoma similima</i> .    |







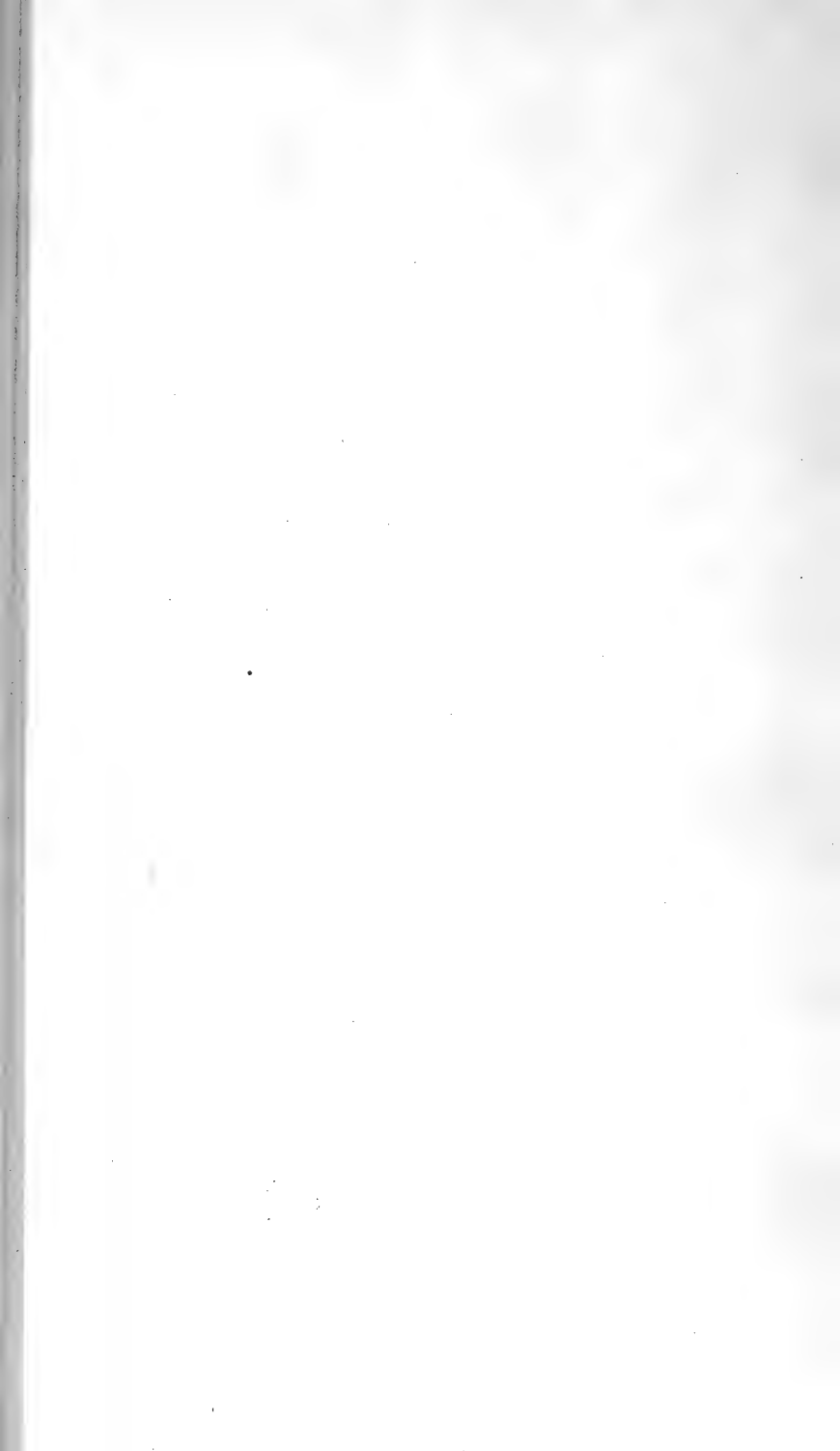
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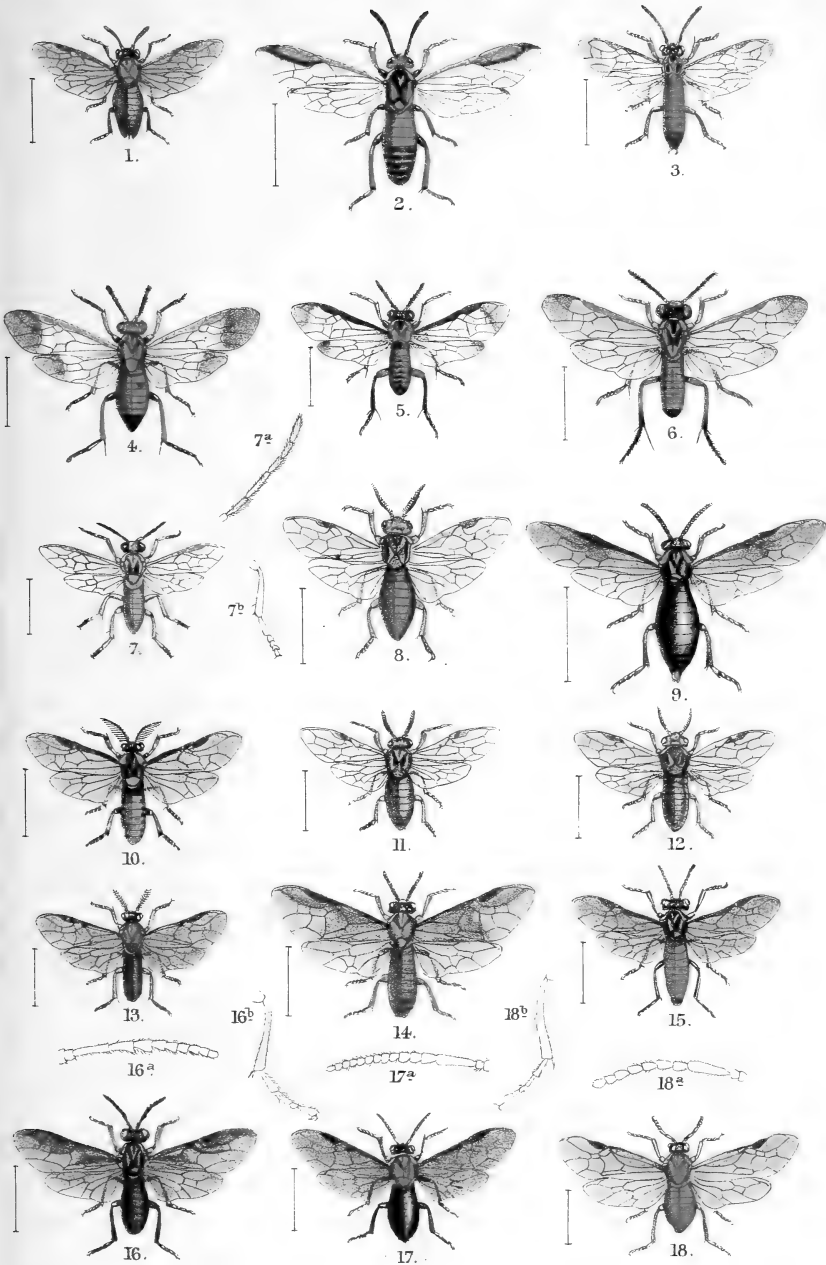
Mintern Bros imp.

1. *Hylotoma xanthogaster*.
2. *Hylotoma sinensis*.
3. *Hylotoma bipunctata*.
4. *Hylotoma lutea*. ♂.
5. *Hylotoma victorina*. ♂.
6. *Hylotoma lutea*. q.
7. *Hylotoma disparilis*. ♂.

8. *Hylotoma victorina*. q.
9. *Hylotoma disparilis*. q.
10. *Hylotoma dubia*.
11. *Hylotoma eximia*.
12. *Hylotoma quadripunctata*.
13. *Hylotoma analis*.
14. *Hylotoma clavicornis*.

15. *Hylotoma nigrinodosa*.
16. *Hylotoma borealis*.
17. *Hylotoma abdominalis*.
18. *Hylotoma cyra*.
19. *Hylotoma coccinea*. ♂.
20. *Hylotoma sphinx*.
21. *Hylotoma coccinea*. q.

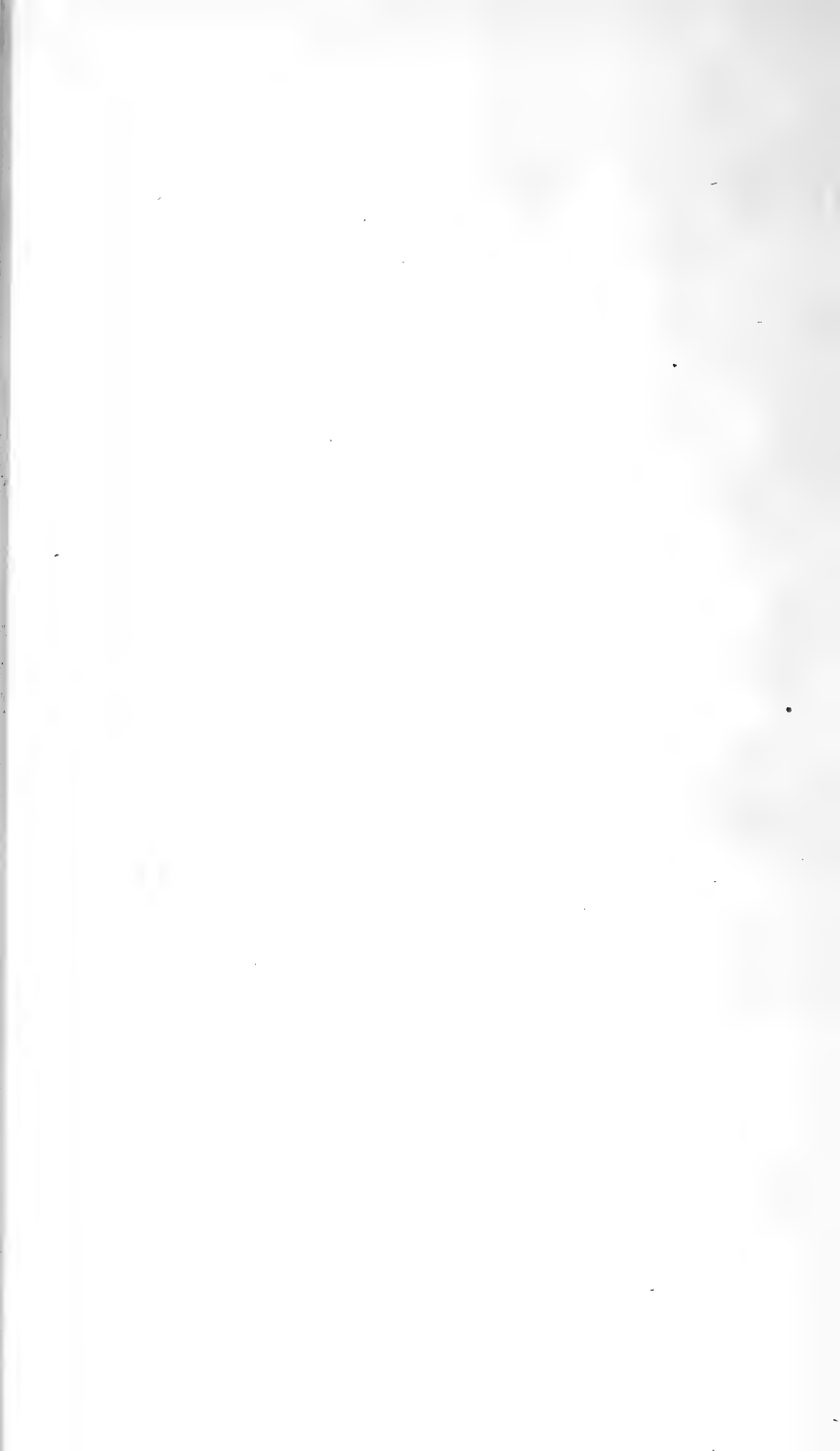


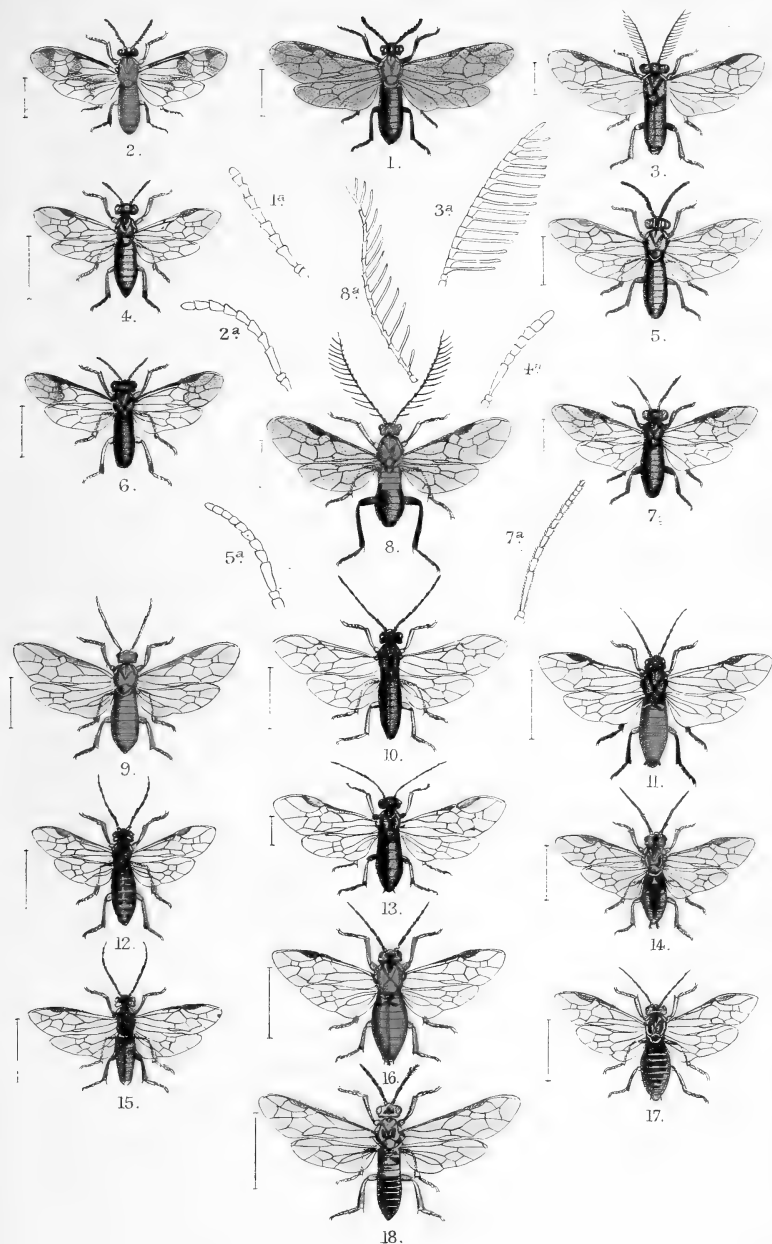


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|-----------------------------------|-----------------------------------|------------------------------------|
| 1. <i>Hylotoma xanthothorax</i> . | 7. <i>Perantherix fatima</i> .    | 13. <i>Perreyia compta</i> . ♂.    |
| 2. <i>Hylotoma vittata</i> .      | 8. <i>Lophyrus americanus</i> .   | 14. <i>Perreyia ancmla</i> .       |
| 3. <i>Hylotoma dryope</i> .       | 9. <i>Pterygophorus leachii</i> . | 15. <i>Perreyia compta</i> . ♀.    |
| 4. <i>Loboceras mexicana</i> .    | 10. <i>Pterygophorus cygnus</i> . | 16. <i>Camptoprium humeralis</i> . |
| 5. <i>Loboceras lucida</i> .      | 11. <i>Lophyrus fabricii</i> .    | 17. <i>Perreyia amazonica</i> .    |
| 6. <i>Loboceras hippolyte</i> .   | 12. <i>Lophyrus abbotii</i> .     | 18. <i>Camptoprium nigriceps</i> . |





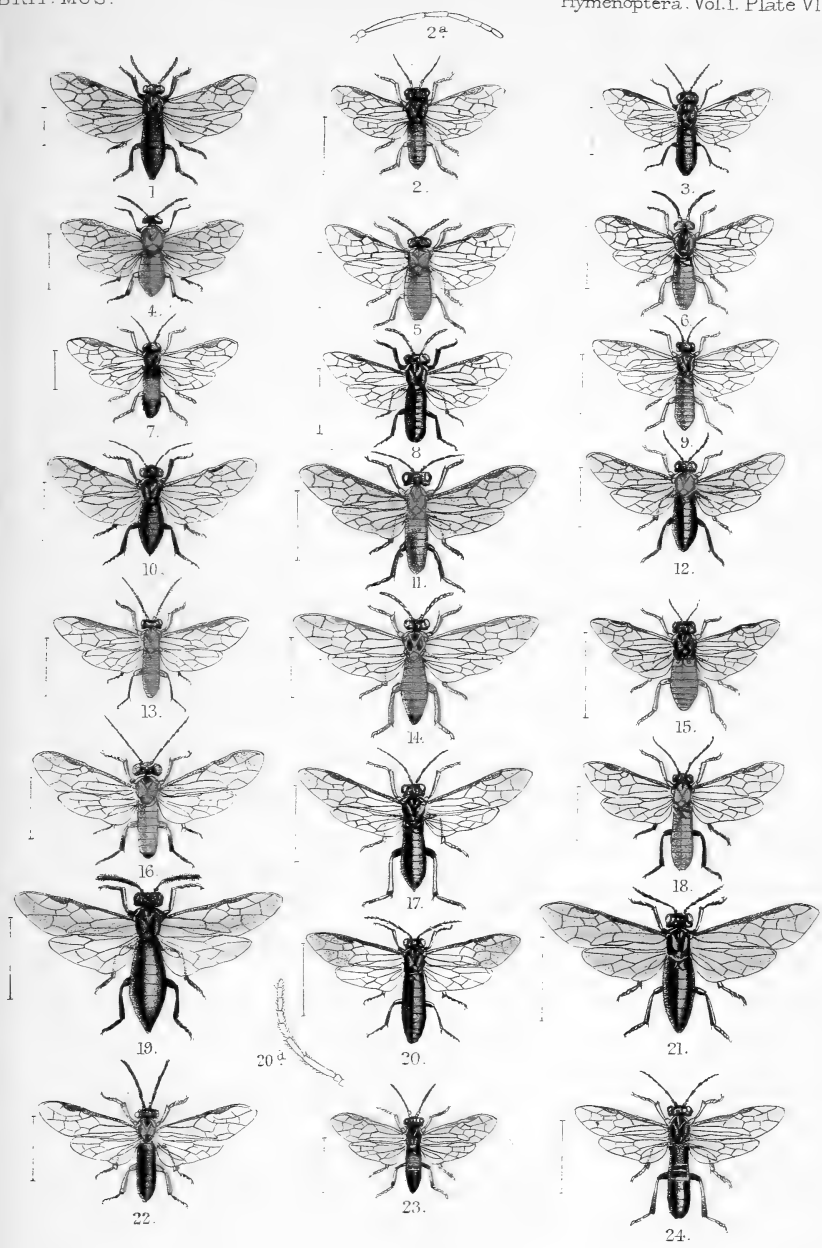
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1. *Acherdocerus fumipennis*.
2. *Decameria testacea*
3. *Polyclonus atratus*
4. *Eurys nitidus*
5. *Euryopsis nitens*
6. *Ancyloneura varipes*.
7. *Ancyloneura nigripes*.
8. *Cladomacra macropus*
9. *Nematus flavescens*.
10. *Nematus palliditarsus*.
11. *Nematus calais*.
12. *Nematus inconspicuus*.

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13. *Nematus alienatus*.
14. *Nematus extraneus*.
15. *Nematus neglectus*.
16. *Nematus castaneus*.
17. *Nematus trifurcatus*.
18. *Monophadnus scutellatus*





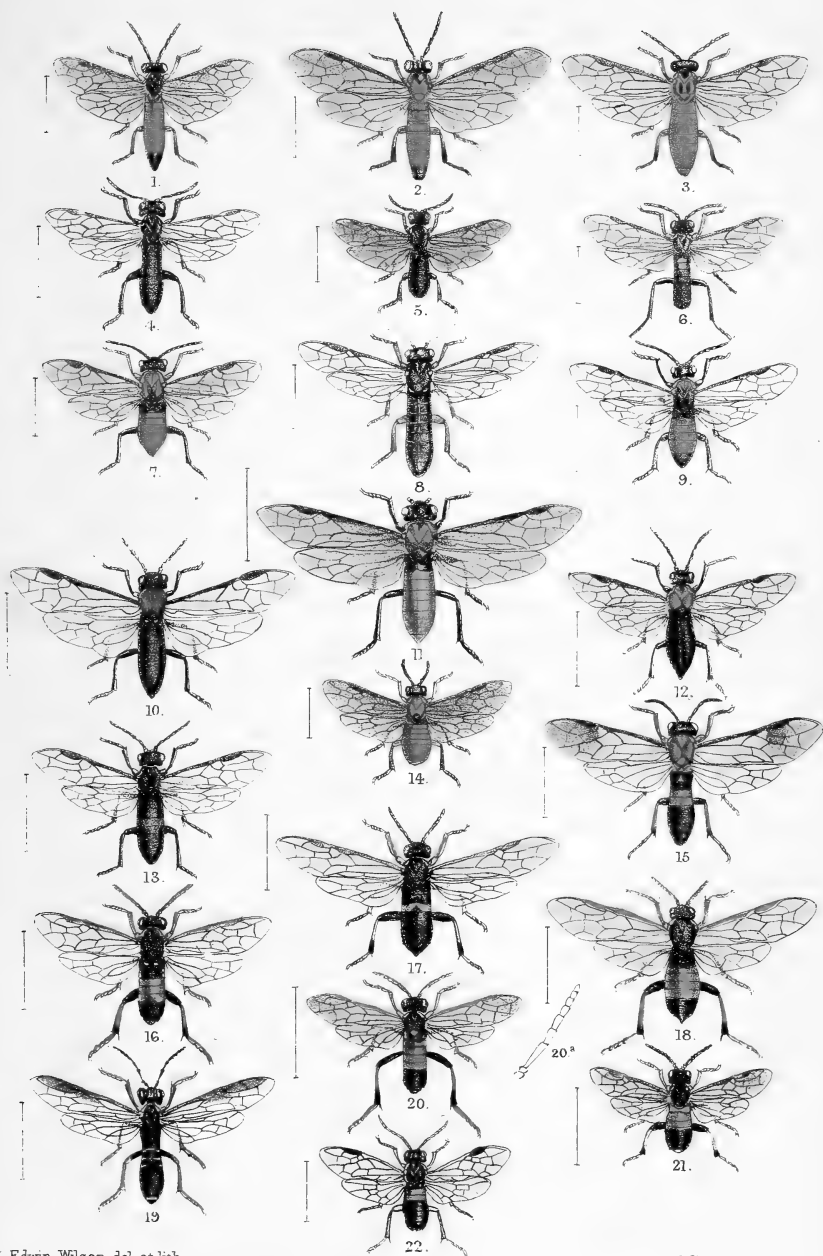
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|-------------------------------------|-------------------------------------|------------------------------------|
| 1. <i>Elennocampa obscura</i> .     | 9. <i>Monophadnus lineatus</i> .    | 17. <i>Eriocampa bengalensis</i> . |
| 2. <i>Xenapates africanus</i> .     | 10. <i>Monophadnus erebus</i> .     | 18. <i>Hoplocampa atriceps</i> .   |
| 3. <i>Monostegia antipoda</i> .     | 11. <i>Monophadnus punctatus</i> .  | 19. <i>Senoclia purpurata</i> .    |
| 4. <i>Monophadnus lewisii</i> .     | 12. <i>Monophadnus amazonicus</i> . | 20. <i>Senoclia cærulea</i> ♂.     |
| 5. <i>Monophadnus nigriceps</i> .   | 13. <i>Monophadnus paranus</i> .    | 21. <i>Senoclia cærulea</i> ♀.     |
| 6. <i>Monophadnus rufus</i> .       | 14. <i>Monophadnus batesii</i> .    | 22. <i>Selandria diversipes</i> .  |
| 7. <i>Monophadnus hudsonicus</i> .  | 15. <i>Selandria dorsalis</i> .     | 23. <i>Selandria glabra</i> .      |
| 8. <i>Monophadnus cærulescens</i> . | 16. <i>Selandria antennata</i> .    | 24. <i>Selandria inconspicua</i> . |





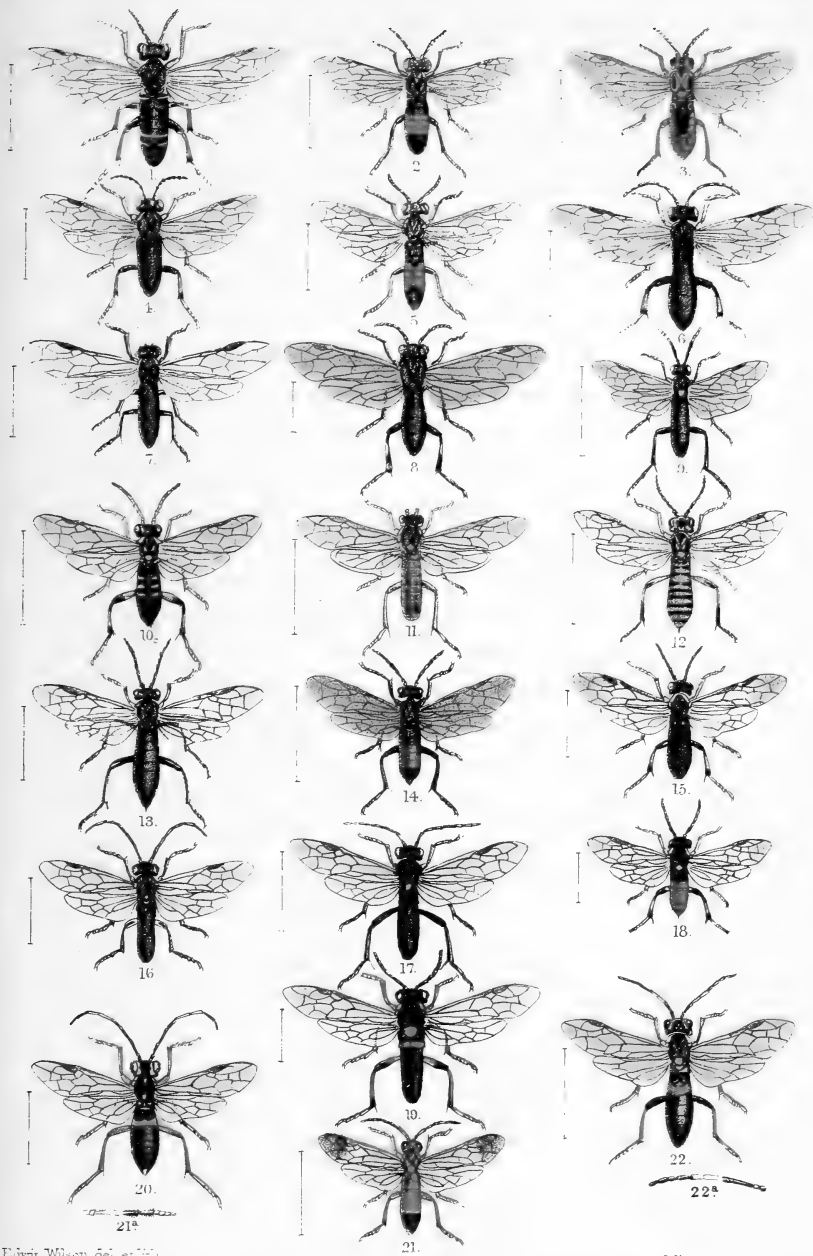


Edwin Wilson del. et lith.

Mintern Bros. imp.

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|------------------------------------|---|------------------------------------|
| 1. <i>Selandria batesii</i> ♂      | 8. <i>Strongylogaster iridipennis</i> . | 16. <i>Siobla ruficornis</i> ♂     |
| 2. <i>Selandria batesii</i> ♀      | 9. <i>Dolerus rufocinctus</i> .         | 17. <i>Siobla pacifica</i> .       |
| 3. <i>Selandria tripunctata</i> .  | 10. <i>Dolerus ephippiatus</i> .        | 18. <i>Siobla ruficornis</i> ♀     |
| 4. <i>Harpiphorus vexator</i> .    | 11. <i>Dolerus cameroni</i> .           | 19. <i>Allantus trochanteratus</i> |
| 5. <i>Emphytus fuscipennis</i> .   | 12. <i>Dolerus affinis</i> .            | 20. <i>Siobla ferox</i> .          |
| 6. <i>Emphytus nigrocæruleus</i> . | 13. <i>Dolerus subfasciatus</i> .       | 21. <i>Siobla robusta</i> .        |
| 7. <i>Dolerus japonicus</i> .      | 14. <i>Athalia proxima</i> .            | 22. <i>Siobla flavipes</i> .       |
|                                    | 15. <i>Siobla incerta</i> .             |                                    |



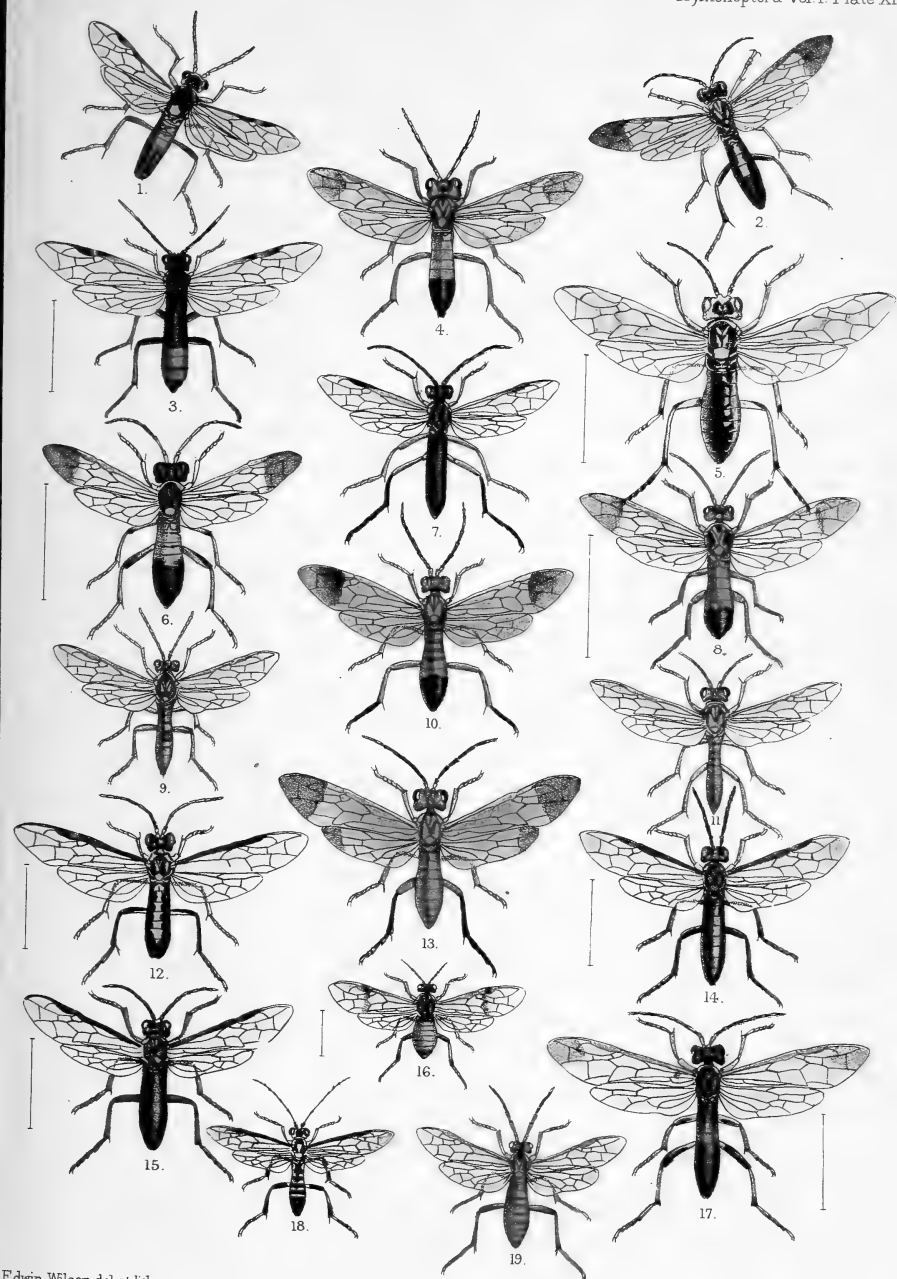


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- |                                  |                                      |                                      |
|----------------------------------|--------------------------------------|--------------------------------------|
| 1. <i>Macrophyta harugn.</i>     | 8. <i>Macrophyta luctifera.</i>      | 16. <i>Pachyprotasis erratica.</i>   |
| 2. <i>Macrophyta lucasi.</i>     | 9. <i>Macrophyta apicalis.</i>       | 17. <i>Pachyprotasis volatilis.</i>  |
| 3. <i>Macrophyta corynetes.</i>  | 10. <i>Macrophyta flavomaculata.</i> | 18. <i>Macrophyta albifacies.</i>    |
| 4. <i>Macrophyta ignava.</i>     | 11. <i>Tenthredopsis irritans.</i>   | 19. <i>Macrophyta pulcherrima.</i>   |
| 5. <i>Macrophyta jugurtha.</i>   | 12. <i>Macrophyta nigropicta.</i>    | 20. <i>Pachyprotasis versicolor.</i> |
| 6. <i>Macrophyta carbonaria.</i> | 13. <i>Macrophyta cassandra.</i>     | 21. <i>Beleses stigmatalis.</i>      |
| 7. <i>Macrophyta tumida.</i>     | 14. <i>Macrophyta abbotii.</i>       | 22. <i>Allomorpha incisa.</i>        |
|                                  | 15. <i>Macrophyta zoe.</i>           |                                      |



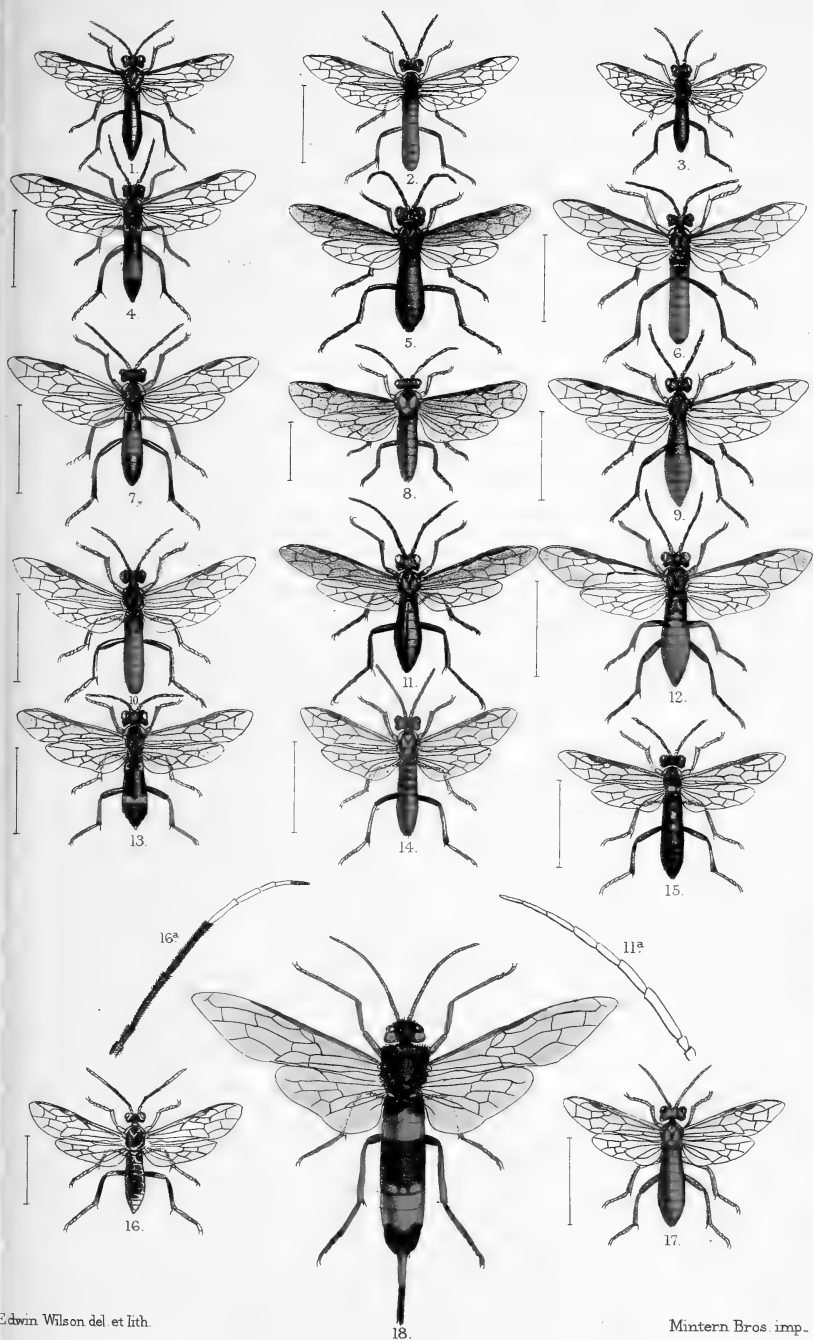


Edwin Wilson del et lith.

Muntern Bros imp

- |                                       |                                     |                                      |
|---------------------------------------|-------------------------------------|--------------------------------------|
| 1. <i>Tenthredopsis nigropectus</i> . | 7. <i>Tenthredo hilaris</i> .       | 13. <i>Tenthredo xanthoptera</i>     |
| 2. <i>Tenthredo fentoni</i> .         | 8. <i>Tenthredo adusta</i>          | 14. <i>Tenthredo uniformis</i>       |
| 3. <i>Tenthredo eburneifrons</i> .    | 9. <i>Tenthredo smithi</i> .        | 15. <i>Tenthredo latifasciata</i> .  |
| 4. <i>Tenthredo xanthotarsus</i> .    | 10. <i>Tenthredo melanotarsis</i> . | 16. <i>Tenthredo amurensis</i> .     |
| 5. <i>Tenthredo varipes</i> .         | 11. <i>Tenthredo fortunii</i> .     | 17. <i>Tenthredo flavobalteata</i> . |
| 6. <i>Tenthredo providens</i> .       | 12. <i>Tenthredo xanthopus</i> .    | 18. <i>Tenthredo indica</i> .        |
|                                       | 19. <i>Tenthredo trimaculata</i> .  |                                      |





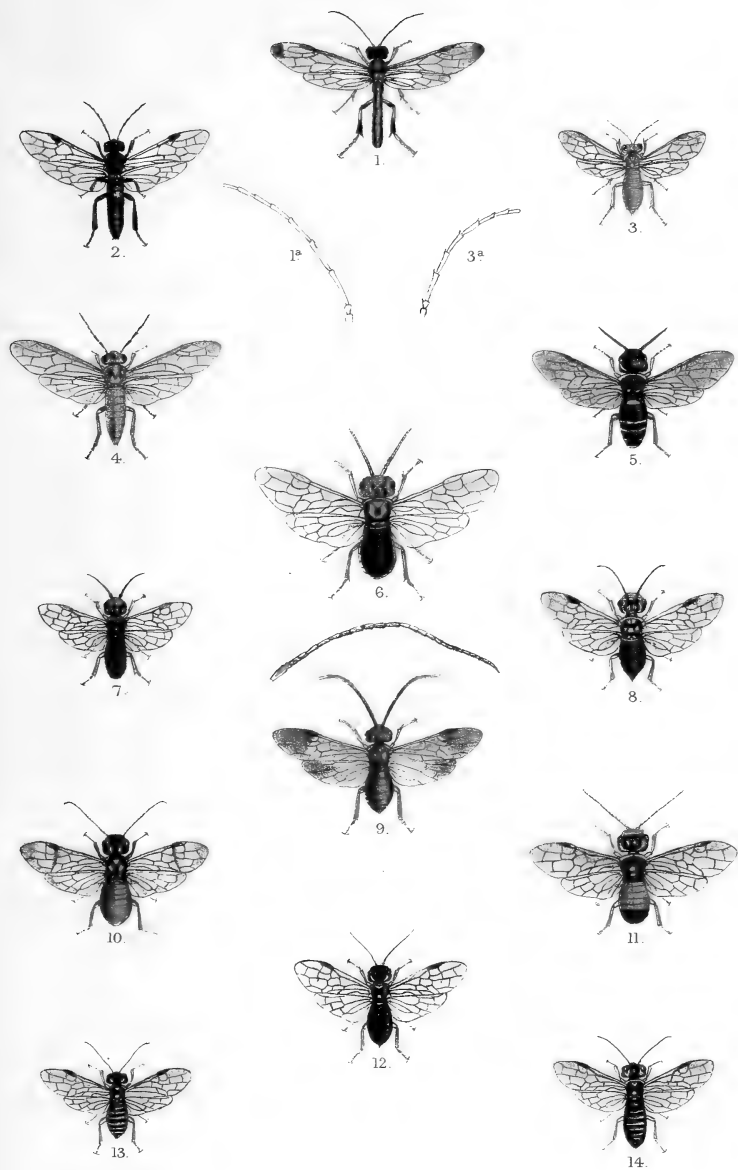
1. *Tenthredo antennata*.
2. *Tenthredo thora*.
3. *Tenthredo nigricollis*.
4. *Tenthredo subrufescens*.
5. *Tenthredo clypeata*.
6. *Tenthredo zetes*.

7. *Tenthredo vapida*.
8. *Tenthredo delicatula*.
9. *Tenthredo barnstonii*. ♀
10. *Tenthredo barnstonii*. ♂
11. *Tenthredo coccinoceras*.
12. *Tenthredo cressonii*.

13. *Tenthredo borealis*.
14. *Tenthredo vittata*.
15. *Tenthredo hudsoni*.
16. *Tenthredo aperta*.
17. *Tenthredo castanea*.
18. *Sirex flavicornis*.





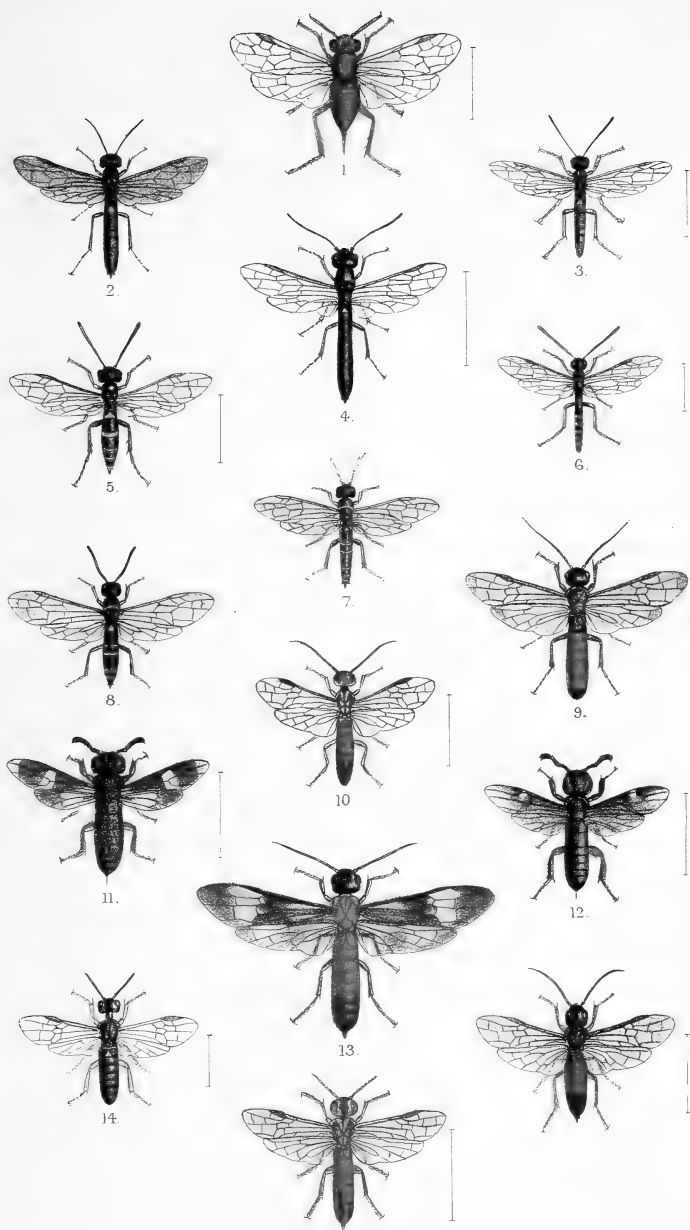


A.H. Searle del. et lith.

Mintern Bros. imp.

1. *Dipteromorpha rotundiventris*.2. *Hypolæpus abbotii*.3. *Aglaostigma eburneiguttata*.4. *Waldheimia batesii*.5. *Megalodontes fabricii*.6. *Pamphilius sylvarum*.7. *Pamphilius flavirostris*.8. *Pamphilius rileyi*.9. *Pamphilius flagellicornis*.10. *Pamphilius mathematicus*.11. *Pamphilius venustus*.12. *Pamphilius sulphureipes*.13. *Pamphilius volatilis*.14. *Pamphilius smithii*.



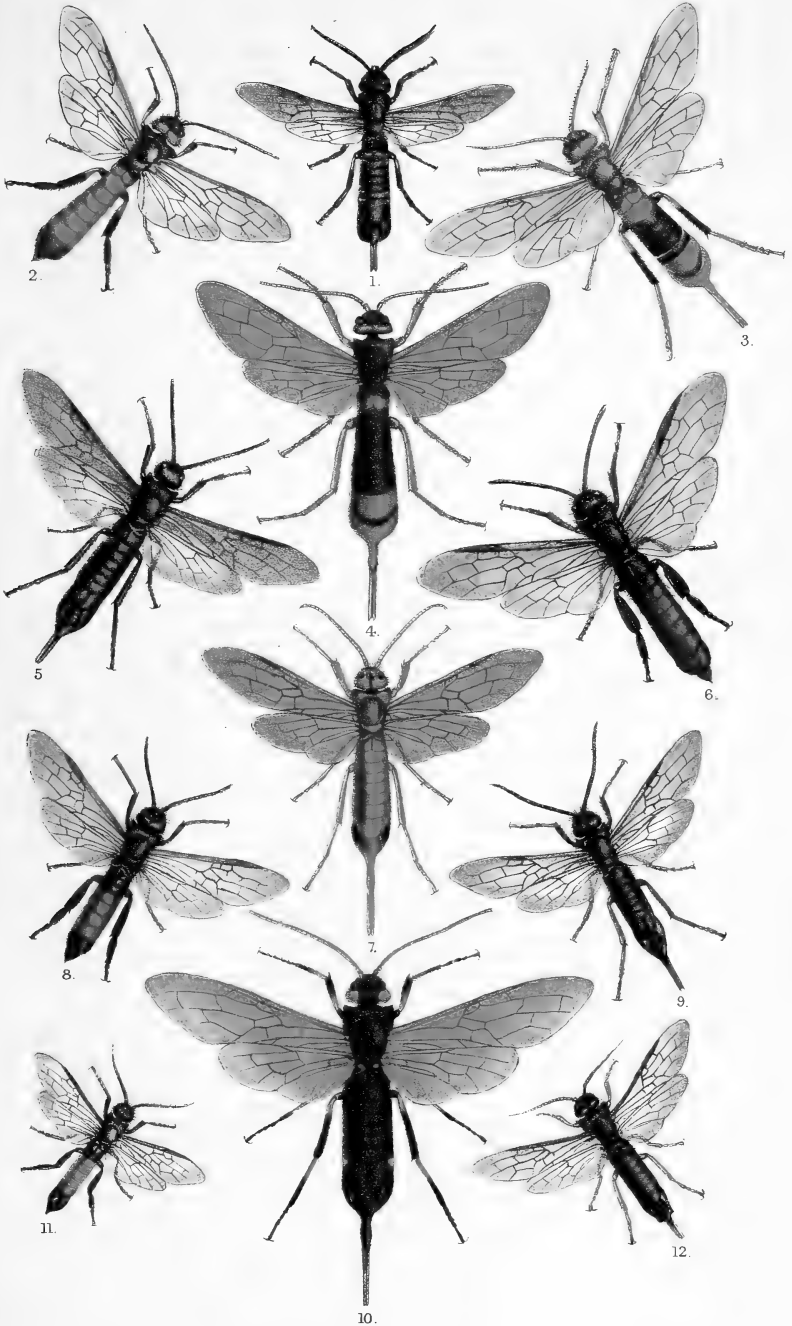


A H Searle del et lith.

Mintern Bros imp.

- |  |   |                                     |
|--|---|-------------------------------------|
| 1. <i>Macroxyela ferruginea</i> .            | 6. <i>Cephus pygmæus</i> ( <i>pusillus</i> ). | 11. <i>Oryssus maculipennis</i> .   |
| 2. <i>Cephus mocsaryi</i> .                  | 7. <i>Cephus linearis</i> .                   | 12. <i>Oryssus batesianus</i> .     |
| 3. <i>Cephus phthiscus</i> .                 | 8. <i>Cephus viator</i> .                     | 13. <i>Derecyrtia pictipennis</i> . |
| 4. <i>Cephus agilis</i> .                    | 9. <i>Brachyziphus hyalinus</i> .             | 14. <i>Xiphidria walshi</i> .       |
| 5. <i>Cephus pygmæus</i> ( <i>auripes</i> ). | 10. <i>Brachyziphus deceptus</i> , ♂.         | 15. <i>Derecyrtia reedii</i> .      |
|  | 16. <i>Brachyziphus deceptus</i> , ♀.         |                                     |



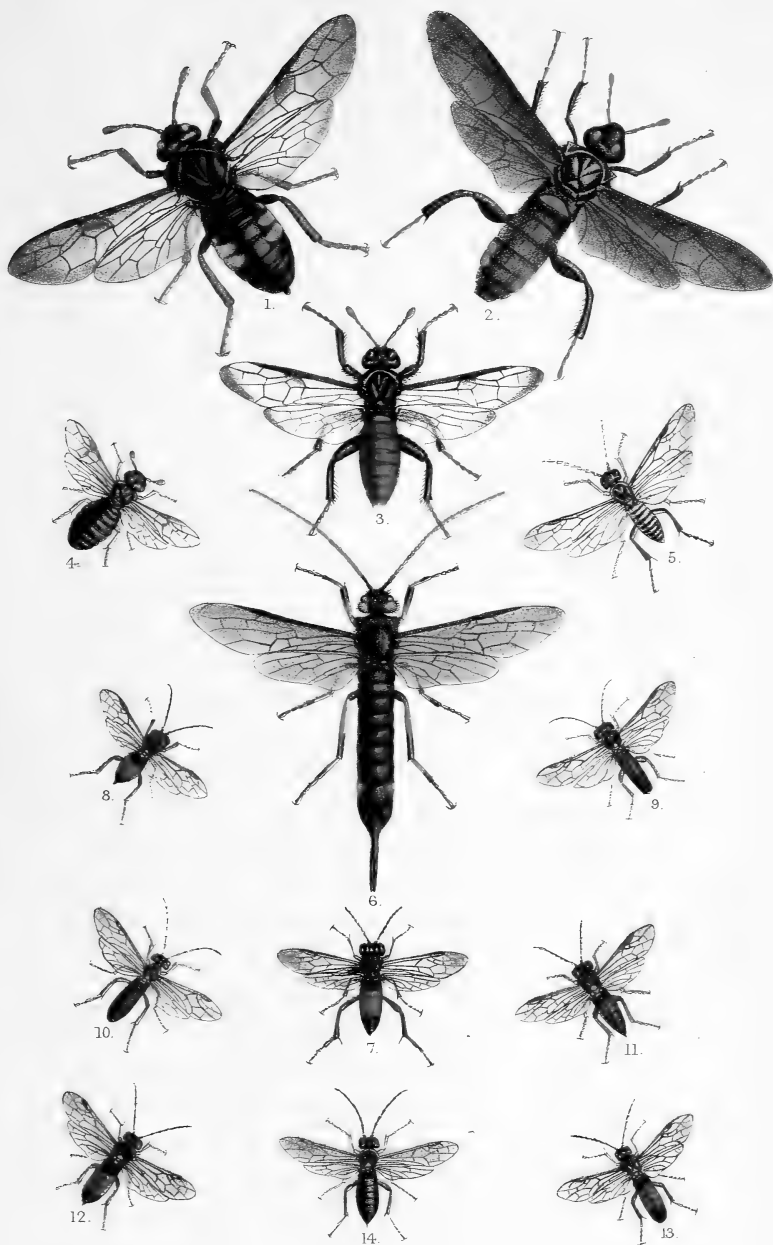


A.H.Searle del. et lith.

Mintern Bros. imp.

- |                             |                              |                              |
|-----------------------------|------------------------------|------------------------------|
| 1. <i>Tremex smithii</i> .  | 5. <i>Sirex imperialis</i> . | 9. <i>Sirex varipes</i>      |
| 2. <i>Sirex cedrorum</i> ♂. | 6. <i>Sirex hirsutus</i> .   | 10. <i>Sirex flavipennis</i> |
| 3. <i>Sirex cedrorum</i> ♀. | 7. <i>Sirex xanthus</i> .    | 11. <i>Sirex apicalis</i> .  |
| 4. <i>Sirex japonicus</i> . | 8. <i>Sirex abbotii</i> .    | 12. <i>Sirex australis</i> . |

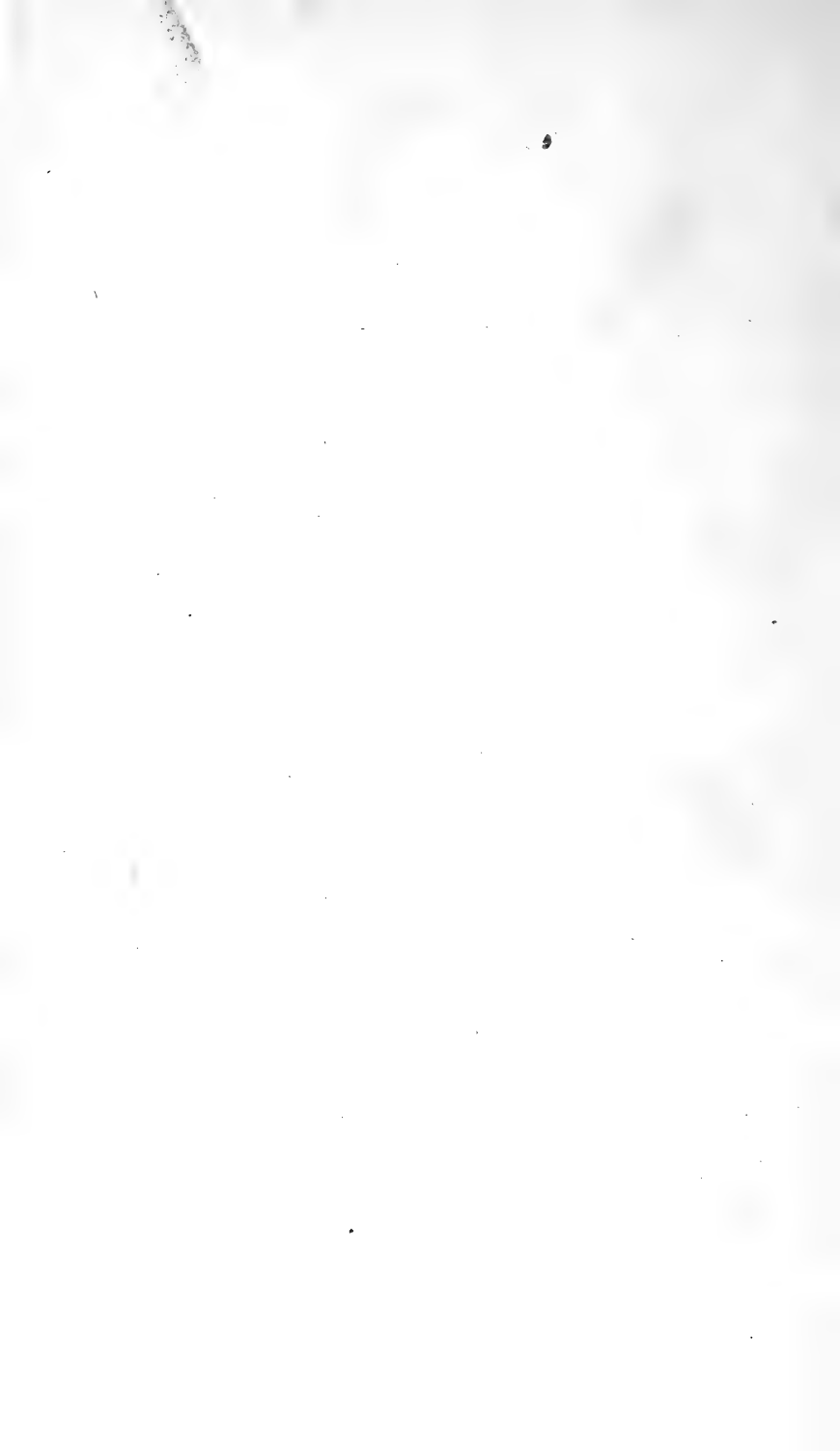




A.H. Searle del et lith.

Mintern Bros imp.

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|----------------------------------|--------------------------------------|--------------------------------------|
| 1. <i>Cimbex japonica</i> .      | 5. <i>Tenthredo finschi</i> .        | 9. <i>Tenthredopsis fulviceps</i> ♂. |
| 2. <i>Cimbex americana</i> .     | 6. <i>Sirex stephensii</i> .         | 10. <i>Tenthredopsis tristis</i> ♂.  |
| 3. <i>Cimbex sibirica</i> .      | 7. <i>Macrophya blanda</i> .         | 11. <i>Tenthredopsis tristis</i> ♀.  |
| 4. <i>Abia brevicornis</i> .     | 8. <i>Tenthredopsis fulviceps</i> ♀. | 12. <i>Tenthredopsis neglecta</i> ♀. |
| 13. <i>Tenthredo neglecta</i> ♂. | 14. <i>Tenthredo caliginosa</i> .    |                                      |

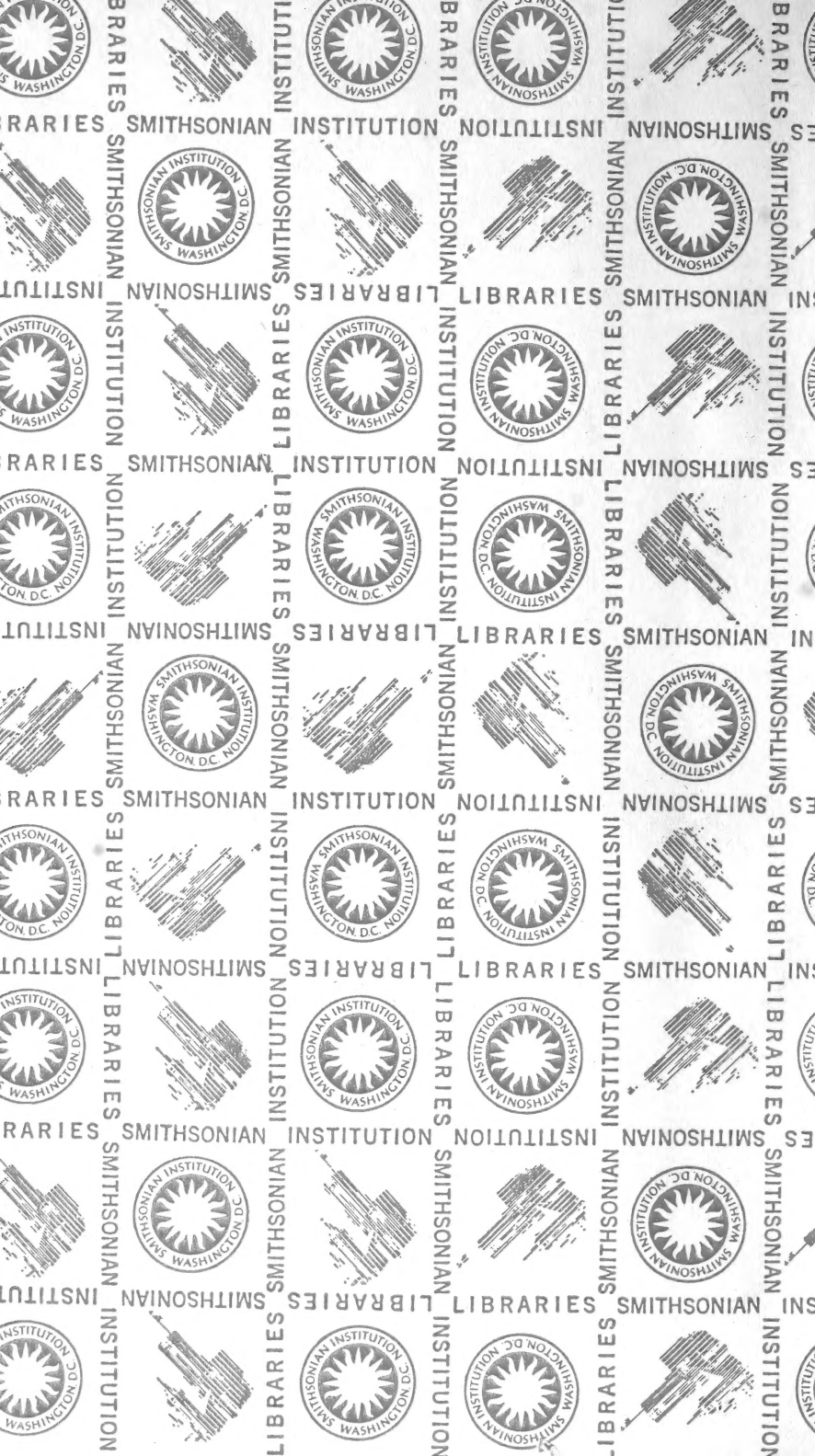


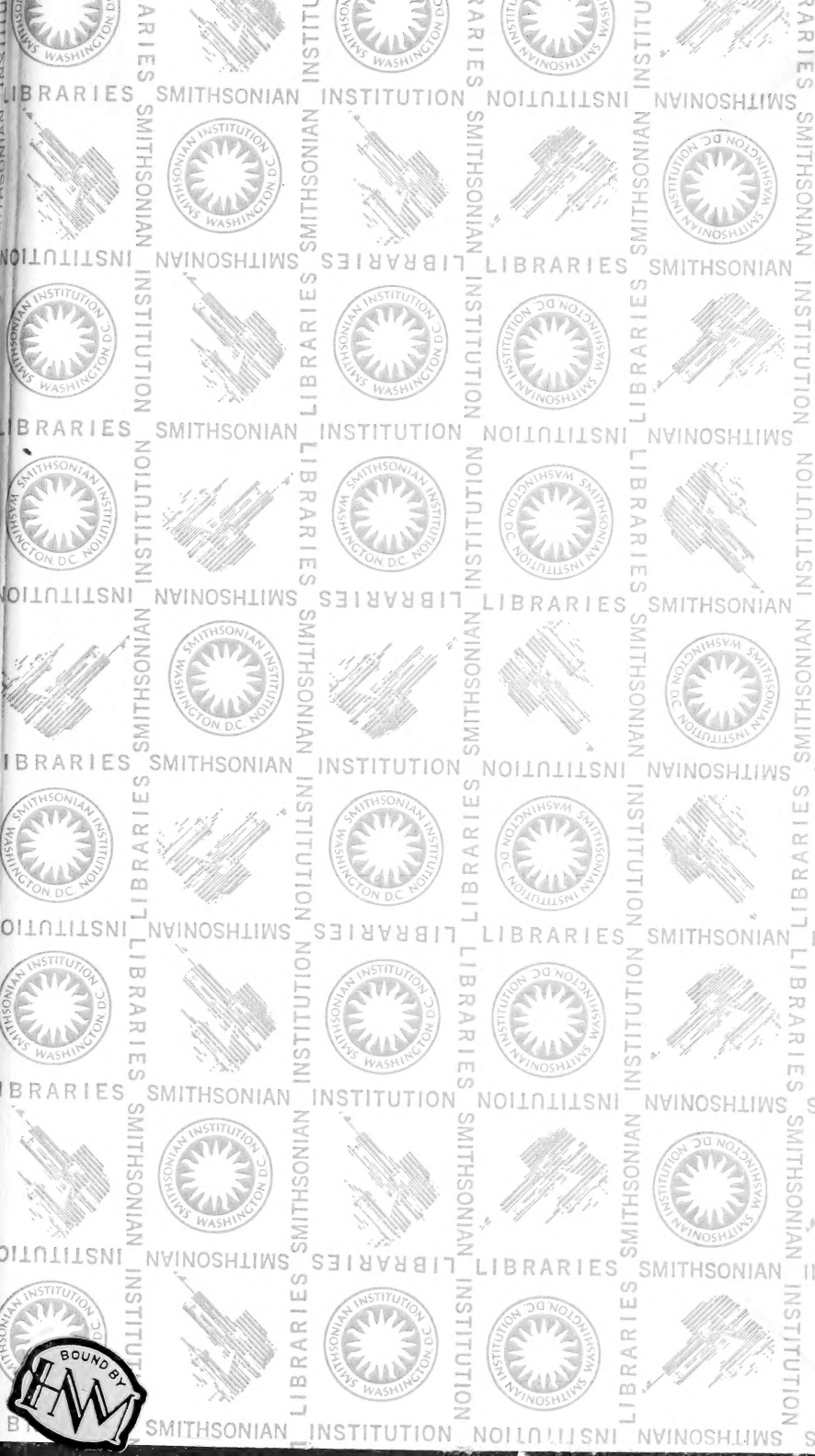












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